

1911.

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# Annual Reports

AND

## VITAL STATISTICS.

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*The Rural District of*

**BUCKLOW,**

AND

*The Urban Districts of*

**KNUTSFORD, WINSFORD, AND BIDDULPH.**

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PREPARED BY

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*The Medical Officer of Health of the Districts.*

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**In accordance with Instructions from the Local  
Government Board.**

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Gongleton:

PRINTED BY ROBT. HEAD AT THE "CHRONICLE" WORKS.

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## To the Chairmen and Members of the several District Councils whose Reports follow:

Gentlemen,

*I now present my seventeenth volume of Annual Reports. Its preparation requires increased time and trouble with each succeeding year, on account of increased demands from the L.G.B. and C.C. Among the voluminous instructions from the former is this:—*

*Printing of Report.—The Annual Report may be made a valuable means of educating the public in matters of public health, of warning them against particular dangers, and of securing co-operation between them and the sanitary authority and their officers. Much value also attaches to exchange of copies of Annual Reports with the Medical Officers of Health of other Districts, in order that experiences may be compared. These advantages can only be secured by having the Report printed, and distributed to each member of the sanitary authority and to other persons interested in its subject. It will be convenient to the Board if the Report is bound in octavo size.*

*In order to reduce the cost to the lowest practicable point, I discontinue several of the Tables previously published, (though with personal regret).*

*I thank you for your continued confidence. It is a matter of legitimate and proper pride to feel the certain consciousness that my position as your Officer becomes more firmly fixed in your kindly regard with each year that passes.*

*I am, Gentlemen,*

*Your obedient Servant,*

**T. W. H. GARSTANG.**

*January 22nd, 1912.*

TABLE 1.

## ENGLAND AND WALES.

Birth-rates and Death-rates in the Year 1911 (Provisional Figures).

	Annual Rates per 1,000 Living.			Deaths under 1 Year to 1,000 Births.
	Births.	Deaths.		
		Crude.	Cor-rected.*	
England and Wales ... ..	24·4	14·6	14·6	130
77 Great Towns including London	25·6	15·5	16·4	140
136 Smaller Towns ... ..	23·4	13·8	14·4	133
England and Wales, less the 213 Towns	23·4	13·9	13·1	118
London ... ..	25·0	15·0	15·8	128
Bucklow Rural ... ..	19·0	11·7	—	110
Biddulph Urban ... ..	27·9	13·7	—	146
Knutsford Urban ... ..	22·0	12·3	—	80
Winsford Urban ... ..	24·9	13·7	—	147

\* The corrected death-rates are the rates which would have been recorded had the age and sex constitution of the populations of the several areas been identical with that of England and Wales as enumerated in 1901.

## GENERAL SUBJECTS.



**Printing**—In consequence of the practical difficulty of printing the Official Tables, with all their “Notes,” on pages of this size, the “Notes” are (as before) omitted from the Tables, to give more room for the figures; and, as they are practically only instructions to the M.O.H., I consider that they may be omitted altogether.

**Instructions.**—The official Memorandum which is annually issued by the Local Government Board, giving instructions as to the preparation of Reports, has been carefully observed; but in small Districts, which have no striking “physical features,” it may perhaps be permitted to omit the formality of repetition on such points.

**Arrangement.**—I propose to follow my usual plan, that is, to write first a certain number of paragraphs, which are intended to be considered as an integral part of each of the individual Reports, to save repetition.

This year it is the turn of the Biddulph Report to be written first; the others will follow in the usual order.

### THE OFFICIAL TABLES.

These have several new features this year. In Table I., five previous years are taken for comparison, instead of ten; and the line of “averages” disappears. A complete scheme for dealing with deaths in the area of any District of persons really resident in another District now takes the place of the former arrangement which dealt with “Public Institutions” only. This is, in every detail, the exact plan which I have voluntarily followed for many years, and which I have so often suggested in previous Reports should be universally applied by authority; some personal gratification is therefore excusable. Table II. (particulars by Sub-Districts) is abandoned. Table III. (now II.) includes phthisis; has an additional age-column; and contains columns for distributing cases among Sub-Districts. Table IV. (now III.) has been re-written and somewhat amplified. Table V. (now IV.) has also been modified in its age-columns.

This therefore appears to be a suitable and proper time for me to revise the other Tables added at my discretion ; and several will now be found to be omitted.

### THE CENSUS.

Exact figures for 1911 take the place of the "estimates" on which we have had to rely for nine preceding years. At Winsford my estimate was 10,732, and the Census 10,772, a difference of only 40. In the Bucklow District however (excluding Public Institutions) my estimate of 22,955 was reduced by the Census to 21,891, a difference of 1064. And at Knutsford similarly my estimate of 5800 is reduced to 5174, a difference of 626. At Biddulph 7730 is reduced to 7425, a difference of 305 only. As a consequence, it has been necessary for me to construct an entirely new list of populations in each District for each year from 1901 to 1911 ; and having done so, to make a fresh calculation of all the "Rates." The figures therefore given in each "L.G.B. Table I." will be found to vary from any previously published ; and I hope will not be far from accuracy.

### PHTHISIS.

The extension of the compulsory notification of phthisis to all hospitals, and the further extension to all medical practice which comes into force with 1912, entirely revolutionises this subject ; and it may therefore well wait for another year before being discussed at any length.

### NOTIFIABLE INFECTIOUS DISEASES.

TABLE 2.

	Notifications.										
	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Bucklow R. ...	39	46	107	240	182	79	65	59	46	106	96
Biddulph U....	20	22	24	15	39	25	55	17	7	118	26
Knutsford U.	—	—	—	—	—	25	12	5	6	70	18
Winsford U....	42	40	43	267	31	47	197	47	22	39	147
	101	108	174	522	252	176	329	128	81	333	287
Middlewich U.	0	9	1	123	24	53	67	31	18	23	12
Northwich R.							270	162	95		



	Notifications.										
	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911*
Bucklow R. ....	158	102	97	117	108	106	72	105	206	123	131
Biddulph U....	21	13	28	50	30	47	22	30	41	21	57
Knutsford U.	17	8	25	17	14	57	64	14	9	60	35
Winsford U....	93	44	23	43	51	38	80	280	468	79	45
	289	167	173	227	203	248	238	429	724	283	268
Middlewich U.	8	35	26	80	61	47	56	19	72		

\* Now including Phthisis.

TABLE 3.

Notifications in 1911.										
	Census Population.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Puerperal Fever.	Erysipelas.	Phthisis.	TOTAL.	Case-rate per 1000 of popula- tion.	
Bucklow R. ...	22870	70	13	19	2	17	10	131	5.7	
Biddulph U. ...	7425	37	7	12	—	1	—	57	7.7	
Knutsford U. ...	5468*	20	—	8	1	—	6	35	6.4	
Winsford U. ...	10772	14	9	4	1	13	4	45	4.2	
	46535	141	29	43	4	31	20	268	5.8	

\* Excluding the Gaol.

The case-rate in 1910 was 5.9; for 1911 it is 5.8; and the Rates for the different Districts approximate to the general average. There is nothing in Tables 2 and 3 that calls for special comment; but they provide much interesting information for the reader who is a statistician.

### DEATHS FROM ZYMOTIC DISEASES.

Six of the "seven principal zymotic diseases" are, this year, in evidence,

TABLE 4.

Deaths from Zymotic Diseases in 1911.									
	Small-pox.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Measles.	Whooping Cough.	Diarrhoea.	TOTAL.	Rate.
Bucklow R. ...	0	0	1	0	1	7	16	25	1.1
Biddulph U. ...	0	2	0	2	0	0	7	11	1.5
Knutsford U....	0	0	0	1	0	5	3	9	1.7
Winsford U. ...	0	0	0	0	0	1	14	15	1.4
	0	2	1	3	1	13	40	60	1.3

and are referred to, as such, for the last time, the classification disappearing for the future. The hot dry summer caused 40 deaths from diarrhoea, (8 only in 1910); and whooping cough for some unknown reason increased from 2 to 13. The death-rate in the Districts taken as a whole is just the average for the previous ten years; (see Annual Report 1910).

#### NOTIFICATION OF INFECTIOUS DISEASES.

During 1911 a new scheme has been in operation whereby each M.O.H. forwards a weekly return of notified cases to the L.G.B., and a second copy to the C.C. The figures for the whole of England and Wales are then printed together, and a copy sent to each M.O.H. I was originally a supporter of this idea; it is with some reluctance, and only from a sense of duty, that I feel compelled to place on record that so far I have found no value to result to me personally from the necessarily large cost incurred.



## THE "PEAT-PAIL" SYSTEM.

As far back as 1897 and 1898 I carefully investigated this system of "dry excrement disposal" at Congleton, where it originated. I was satisfied with it, and among many allusions to it in my Annual Reports I quote the following from the Biddulph Annual Report for 1898 :—

"The Sanitary Committee also decided, after exhaustive discussion, to adopt the system of excrement-disposal known as the "Congleton Peat Pail." I was able to advise them that the experiment had been made at Knutsford with very good results. Some few are being got into use. The pails are made of wood; each contains one-fifth its volume of finely powdered and carefully dried peat-dust, acidulated with 10 % by weight of common sulphuric acid. The pails are in duplicate, and once a week a clean one is placed in position, and the partly filled one removed. The peat absorbs all moisture as fast as deposited, and the sulphuric acid fixes the ammonia given off by decomposing urine. The pail-contents are thus always dry, and almost inodorous, (of course if the pail receive fair treatment), and when emptied at the central dépôt, are found to have combined together into a kind of humus which forms a valuable manure. For property which is not considered fit for water-closets, this system is the best with which I am acquainted."

To complete the description it only remains to add that the emptied pail is washed at the dépôt, (disinfected if necessary), and re-charged with peat-dust; when it is ready for re-issue. I am prepared to stand to-day by the opinion expressed 13 years ago; *if the system be carried out as described.*

The pails have been in use ever since in the Urban Districts of Biddulph, Knutsford, Middlewich and Winsford. Property owners have gone to considerable expense in providing pails, and the Councils have also found the system more expensive than ordinary scavenging, because of the necessity of providing for the additional carting, cleansing, &c.

In the Knutsford Annual Report, 1910, p. 40, will be found an important reference to the unauthorised departure from the system by the discontinuance of the sulphuric acid, and my condemnation of such retrograde action.

I am now exceedingly sorry to have to add that, on making further enquiries, I found that the same thing had occurred at Biddulph and Winsford, (Middlewich is no longer under my charge,) and even at Congleton itself.

I have been unable to obtain from any of the persons concerned any rational or satisfactory explanation; and I can

therefore only offer that which suggests itself to me. The acid was disliked because of its corrosive action on hands and clothes, so it was quietly dropped. Then it was found too much trouble to pulverise the peat, which was therefore used in lumps. Many other irregularities followed, such as non-removal (and therefore non-cleansing) of such pails as could be emptied into others; and so the system has broken down and the pails have become a filthy and abominable nuisance. It must be noted that this is not the fault of the system itself, but is entirely due to departure from its rules.

I have drawn the attention of each Council to the matter, and have advised that either the original rules must be observed in their entirety, or the system abandoned. That there are financial difficulties in either direction is unfortunate, but cannot be helped. My advice is to re-establish the original system as described at the beginning of this article.

**T. W. H. GARSTANG.**

*February 2nd, 1912.*



# Biddulph Urban District.

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## ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH FOR 1911.

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Population at Census, 1891, 5,290.

„ „ „ 1901, 6,247. Increase 957.

„ „ „ 1911, 7,425. Increase 1,178.

Area of District in Acres (exclusive of area covered by water) 5,057—30=5,027.

Number of Inhabited Houses, 1,516.	} At Census of
Average Number of Persons per House, 4'9.	
	1911.

Institutions within the District receiving sick and infirm persons from outside the District: None.

Institutions outside the District receiving sick and infirm persons from the District: Union Workhouse, at Leek. North Stafford Infirmary. Congleton Cottage Hospital. Joint Infectious Diseases Hospital, at West Heath, Congleton.

Other Institutions, the deaths in which have been distributed among the several localities in the District: None.

Birth Rate per 1,000 living, 27'9.

Death Rate per 1,000 living, 13'7.

Death Rate from Seven Principal Zymotic Diseases, 2'4.

Deaths under one year in proportion to 1,000 Births, 146.

Each birth or death contributes to the Rate 0'13468.

TABLE 5.

(Local Government Board Table I.)

Vital Statistics of Whole District during 1911 and Previous Years.

Name of District, BIDDULPH (URBAN).

YEAR.	Population estimated to Middle of each Year.	BIRTHS.			TOTAL DEATHS REGISTERED IN THE DISTRICT.		TRANSFER-ABLE DEATHS.		NETT DEATHS BELONGING TO THE DISTRICT.			
		Uncorrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
			Number.	Rate.					Number.	Rate per 1000 Nett Births.	Number.	Rate.
1906	6836	235	...	34'4	102	...	...	2	39	166	104	15'2
1907	6953	246	...	35'4	89	...	1	4	24	97	92	13'2
1908	7071	254	...	35'9	86	...	...	3	22	87	89	12'6
1909	7189	251	...	34'9	120	...	...	1	32	127	121	16'8
1910	7307	256	...	35'0	79	...	1	4	25	98	82	11'2
1911	7425	205	...	27'9	93	...	...	9	30	146	102	13'7

TABLE 6.—(Local Government Board Table II.)

Cases of Infectious Disease notified during the Year 1911.

Name of District, BIDDULPH (URBAN).

NOTIFIABLE DISEASE.	NUMBER OF CASES NOTIFIED.							TOTAL CASES REMOVED TO HOSPITAL.
	At all Ages.	At Ages—Years.						
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 45.	45 to 65.	
Small-pox ...	..	..	..	..	..	..	..	..
Cholera ...	..	..	..	..	..	..	..	..
Diphtheria (including Membranous Croup)	7	1	6	..	..	..	..	1
Erysipelas ...	1	..	..	..	1	..	..	..
Scarlet Fever ...	37	15	19	1	2	..	..	19
Typhus Fever ...	..	..	..	..	..	..	..	..
Enteric Fever ...	12	..	3	4	4	..	1	12
Relapsing Fever ...	..	..	..	..	..	..	..	..
Continued Fever ...	..	..	..	..	..	..	..	..
Puerperal Fever ...	..	..	..	..	..	..	..	..
Plague ...	..	..	..	..	..	..	..	..
Phthisis—	..	..	..	..	..	..	..	..
Under Tuberculosis Regulations, 1908	..	..	..	..	..	..	..	..
Under Tuberculosis Regulations, 1911	..	..	..	..	..	..	..	..
Others ...	..	..	..	..	..	..	..	..
Totals ...	57	16	28	5	7	..	1	32



TABLE 7.

(Local Government Board Table III.)

Causes of, and Ages at, Death during the Year 1911.

Name of District, BIDDULPH (URBAN).

CAUSES OF DEATH.		Net Deaths at the subjoined ages of "Residents" whether occurring within or without the District.									Total Deaths whether of "Residents" or "non-Residents" in Institutions in the District.
		All Ages.	Under 1 year.	1 & under 2 years.	2 & under 5 years.	5 & under 15 years.	15 & under 25 years.	25 & under 45 years.	45 & under 65 years.	65 & up- wards.	
All Causes	{ Certified ... Uncertified ..	100 2	29 1	4 ...	2 ...	6 ...	5 ...	14 ...	19 1	21 ...	
Enteric Fever	...	2	...	...	...	1	1	...	...	...	
Small-pox	...	...	...	...	...	...	...	...	...	...	
Measles	...	...	...	...	...	...	...	...	...	...	
Scarlet Fever	...	2	...	1	...	1	...	...	...	...	
Whooping Cough	...	...	...	...	...	...	...	...	...	...	
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	
Influenza	...	1	...	...	...	...	...	...	1	...	
Erysipelas	...	...	...	...	...	...	...	...	...	...	
Cerebro-Spinal Fever	...	...	...	...	...	...	...	...	...	...	
Phthisis	...	10	...	...	...	...	2	5	3	...	
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	
Other Tuberculous Diseases	...	2	...	...	1	...	1	...	...	...	
Rheumatic Fever	...	1	...	...	...	...	1	...	...	...	
Cancer, Malignant Disease	...	6	...	...	...	...	...	...	3	3	
Bronchitis	...	1	...	...	...	...	...	...	1	...	
Broncho-Pneumonia	...	10	7	2	...	1	...	...	...	...	
Pneumonia (all other forms)	...	5	2	...	...	...	...	1	2	...	
Other Diseases of Respira- tory Organs	...	...	...	...	...	...	...	...	...	...	
Diarrhoea and Enteritis	...	10	8	1	...	...	...	...	1	...	
Appendicitis and Typhlitis	...	2	...	...	...	...	...	1	1	...	
Alcoholism	...	...	...	...	...	...	...	...	...	...	
Cirrhosis of Liver	...	...	...	...	...	...	...	...	...	...	
Nephritis & Bright's Disease	...	...	...	...	...	...	...	...	...	...	
Puerperal Fever	...	...	...	...	...	...	...	...	...	...	
Other Accidents and Dis- eases of Pregnancy and Parturition	...	...	...	...	...	...	...	...	...	...	
Congenital Debility and Malformation, includ- ing Premature Birth	...	10	10	...	...	...	...	...	...	...	
Violent Deaths, excluding Suicide	...	1	...	...	...	...	...	1	...	...	
Suicides	...	...	...	...	...	...	...	...	...	...	
Infantile Convulsions, &c.	...	3	3	...	...	...	...	...	...	...	
Cerebral Diseases	...	10	...	...	...	2	...	2	3	3	
Heart Disease	...	7	...	...	...	...	...	1	3	3	
Old Age	...	10	...	...	...	...	...	...	...	10	
Other Defined Diseases	...	9	...	...	1	1	...	3	2	2	
Diseases ill-defined or un- known	...	...	...	...	...	...	...	...	...	...	
		102	30	4	2	6	5	14	20	21	

NO PUBLIC INSTITUTIONS.



TABLE 8.

(Local Government Board Table IV.)

## Infant Mortality.

1911. Nett Deaths from stated causes at various Ages under 1 Year of Age.

Name of District, BIDDULPH (URBAN).

CAUSE OF DEATH.			Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under One Year.
All Causes.	{ Certified ...	...	2	2	1	1	6	6	10	4	3	29
	{ Uncertified ...	...	...	...	...	...	...	1	...	...	..	1
Small-pox	...	...	...	...	..	...	...	...	...	...	...	...
Chicken-pox	..	...	...	...	..	...	...	...	..	...	...	...
Measles	...	...	...	...	..	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhoea	...	...	...	...	...	...	...	...	...	...	...	...
Enteritis	..	...	...	...	...	...	...	3	2	2	1	8
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...	...
Congenital Malformations	...	...	...	...	...	...	...	...	...	...	...	...
Premature Birth	...	...	2	...	...	...	2	...	...	...	...	2
Atrophy, Debility, & Marasmus	...	...	..	1	1	1	3	2	3	...	...	8
Atelectasis	...	...	...	..	...	...	...	...	...	...	...	...
Injury at Birth	...	...	...	..	...	...	...	...	...	...	...	...
Erysipelas	..	...	...	...	...	...	...	..	...	...	...	...
Syphilis	...	...	...	...	...	...	...	...	...	...	...	...
Rickets	...	...	...	...	...	...	...	...	...	...	...	...
Meningitis ( <i>not Tuberculous</i> )	...	...	...	...	...	...	...	...	...	...	...	...
Convulsions	...	...	...	1	...	...	1	...	1	1	...	2
Gastritis	...	...	...	...	...	...	...	...	...	...	...	...
Laryngitis	..	...	...	...	...	...	...	...	...	...	...	...
Bronchitis	...	...	...	...	...	...	...	...	...	...	...	...
Pneumonia (all forms)	...	...	...	...	...	...	...	2	4	1	2	9
Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes	...	...	...	...	...	...	...	...	...	...	...	...
			2	2	1	1	6	7	10	4	3	30

Nett Births in the year { legitimate 193  
 illegitimate 12      Nett Deaths in the year of { legitimate infants 28  
 illegitimate infants 2

TABLE 9.

Births.

	M.	F.	Total.	Rate.	Of which Ille- gitimate.		
					M.	F.	Total.
1st Quarter	20	23	43	23·5	0	1	1
2nd „	20	27	47	25·4	0	5	5
3rd „	33	24	57	30·5	0	2	2
4th „	32	26	58	31·0	4	0	4
Total ...	105	100	205	27·9	4	8	12

TABLE 10.

Shewing Deaths, Death-rates, Deaths from Special Diseases, and Old Age and Infantile Deaths, in the Four Quarters of the Year, 1911.

QUARTER ENDING.				Total Deaths.	Rate.	DEATHS.		Scarlet Fever.	Enteric Fever.	Diarrhoea.	ZYMOTIC DEATHS.		Phthisis.
						At 65 Years and upwards.	Under One Year.				Total.	Rate.	
March 31	...	...	...	27	14·8	2	7	0	1	0	1	0·5	3
June 30	...	...	...	30	16·2	10	7	0	1	0	1	0·5	2
Sept. 30	...	...	...	23	12·3	3	8	2	0	7	9	4·8	4
Dec. 31	...	...	...	22	11·8	6	8	0	0	0	0	0·0	1
Total	...	...	...	102	13·7	21	30	2	2	7	11	1·5	10

TABLE 11.

Notifications of Infectious Diseases.

Year.	Small-pox.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Erysipelas.	Puerperal Fever.	TOTAL.
1890	—	12	2	3	2	1	20
1891	—	5	1	5	2	2	15
1892	—	18	3	3	—	—	24
1893	—	11	2	—	2	—	15
1894	18	12	4	3	2	—	39
1895	—	13	9	1	—	2	25
1896	—	38	4	3	4	6	55
1897	—	11	1	—	5	—	17
1898	—	1	3	2	1	—	7
1899	—	110	—	5	3	—	118
1900	—	22	1	3	—	—	26
1901	—	—	15	2	3	1	21
1902	—	—	1	11	1	—	13
1903	—	5	23	—	—	—	28
1904	—	14	30	3	2	1	50
1905	—	11	17	—	1	1	30
1906	—	12	28	5	2	—	47
1907	—	4	17	—	1	—	22
1908	—	4	26	—	—	—	30
1909	—	26	11	—	4	—	41
1910	—	15	2	4	—	—	21
1911	—	37	7	12	1	—	57

TABLE 12.

Deaths from Zymotic Diseases.

Year.	Small-pox.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Measles.	Whooping- cough.	Diarrhœa.	TOTAL.	Phthisis.	Puerperal Fever.	Erysipelas.
1890	—	1	—	—	—	—	—	1	6	1	—
1891	—	—	—	—	1	11	1	13	8	2	—
1892	—	2	—	—	—	—	1	3	2	—	—
1893	—	1	2	—	4	—	7	14	6	2	—
1894	1	—	3	1	—	1	—	6	2	1	—
1895	—	—	4	1	2	5	7	19	6	2	—
1896	—	3	4	—	3	2	2	14	9	2	—
1897	—	—	1	—	—	4	2	7	9	—	—
1898	—	—	1	—	12	3	4	20	5	—	—
1899	—	4	—	1	—	5	9	19	6	1	2
1900	—	—	1	—	—	—	6	7	2	—	—
1901	—	—	1	—	—	—	3	4	3	—	—
1902	—	—	1	1	7	2	3	14	5	—	—
1903	—	—	7	—	—	—	—	7	5	—	—
1904	—	—	4	—	1	—	—	5	9	—	—
1905	—	—	1	—	3	3	4	11	6	—	—
1906	—	—	2	1	3	1	4	11	4	1	1
1907	—	—	2	—	—	—	—	2	4	—	—
1908	—	—	3	—	7	—	7	17	1	—	—
1909	—	—	2	—	1	3	2	8	5	—	—
1910	—	1	—	—	—	—	1	2	—	—	—
1911	—	2	—	2	—	—	7	11	10	—	—

TABLE 13.

(Under Art. V. Housing Regulations, 1910).

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Number of houses inspected	...	...	...	...	22
„ found unfit for habitation...	...	...	...	...	1
„ of representations to authority	...	...	...	...	21
„ of closing orders made	...	...	...	...	1
„ of houses remedied without closing orders	...	...	...	...	20
„ put into fit state after closing order	...	...	...	...	0
General character of defects found to exist: deficient yard space, defective drains and paving, offensive privies.					



TABLE 14.

Summary of Sanitary Work done in the Nuisance Inspector's Department during the year 1911, in the Urban District of Biddulph.

		NUMBER OF		ABATEMENT NOTICES.		NUISANCES ABATED AFTER NOTICE BY	
		Inspections and Observations made.	Defects found.	Informal by Inspector.	Formal by Authority.	Inspector.	Authority.
Dwelling-Houses and Schools.	Foul Conditions ... ..	197	87	84	3	84	3
	Structural Defects ... ..	126	38	35	3	35	3
	Overcrowding ... ..	3	3	3	...	3	...
	Unfit for Habitation ... ..	1	1	...	1	...	...
	Lodging Houses ... ..	...	...	...	...	...	...
	Dairies and Milkshops ... ..	...	...	...	...	...	...
	Cowsheds ... ..	45	16	16	...	16	...
	Bakehouses... ..	10	Inspected Quarterly	...	...	...	...
	Slaughter-houses ... ..	3		...	...	...	...
	Canal Boats ... ..	...	...	...	...	...	...
House Drainage.	Ashpits and Privies ... ..	27	17	17	...	17	...
	Deposits of Refuse and Manure ...	5	5	5	...	5	...
	Water Closets ... ..	...	...	...	...	...	...
	Defective Traps ... ..	193	95	92	3	92	3
	No Disconnection .. ..						
	Other Faults ... ..						
	Water Supply ... ..	...	...	...	...	...	...
	Pigsties .. ..	...	...	...	...	...	...
	Animals improperly kept .. ..	8	8	8	...	8	...
	Offensive Trades .. ..	...	...	...	...	...	...
	Smoke Nuisances ... ..	...	...	...	...	...	...
	Other Nuisances ... ..	...	...	...	...	...	...
TOTALS ... ..		618	270	260	10	260	9
<i>Precautions against Infectious Disease.</i> Lots of Infected Bedding Disinfected or Destroyed .. .. Houses Disinfected after Infectious Disease ... ..							Nos. 5 31

S. GIBSON,

January 6th, 1912.

Inspector of Nuisances.

TABLE 15.

Annual Report of the Medical Officer of Health for the year 1911, for the Urban District of Biddulph, on the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, Workplaces and Homework.

## 1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.	Inspections.	Number of Written Notices.	Prosecutions.
Factories ... .. (Including Factory Laundries.)	16	...	...
Workshops ... .. (Including Workshop Laundries.)	76	4	...
Workplaces ... ..	...	...	...
Total ... ..	92	4	...

## 2.—DEFECTS FOUND.

Particulars.	Found.	Number of Defects Remedied	Referred to H.M. Inspector.	Number of Prosecutions
<i>Nuisances under the Public Health Acts :—</i>				
Want of Cleanliness ...	1	1	...	...
Overcrowding ...	1	1	...	...
Sanitary Accommodation— Unsuitable or Defective	3	3	...	...
Total ... ..	5	5	...	...

## 4.—REGISTERED WORKSHOPS.

Class.	Number.
Workshops ... ..	45
Total number of Workshops on Register ... ..	45

## 5.—OTHER MATTERS.

<i>Matters notified to H.M. Inspector of Factories :—</i>							
Failure to affix Abstract of the Factory and Workshop Act ... ..	...	...	...	...	...	...	1

## BIDDULPH URBAN DISTRICT.

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**Note.**—The matter found on pages 3 to 10, inclusive, is to be read as a part of this Report.

**Area.**—Unchanged,

**Particular Features.**—There are no Public Institutions in the District, (save the temporary Isolation Hospital now disused); no Canals; and no Common Lodging Houses.

**Isolation Hospital.**—The West Heath Hospital belongs jointly to Congleton M.B., Congleton R.D., Buglawton U.D., Sandbach U.D., and Biddulph U.D. The total number of beds is 45; and three diseases can be concurrently treated.

**Population.**—The Census, 7425, gives us a fresh start on correct numbers,

**Tables.**—These are cut down from 14 to 10; together with 4 (in place of 7) in the first part of the book. All, I hope, will repay patient examination.

**1911.**—The principal event of the year was the epidemic of enteric fever; and the next was the autumn diarrhœa, which helped to increase the infant mortality.

**Influences threatening the Health of the District. Prevalence of Infectious Disease. Measures taken.**—No special influences are known, beyond the exceptional heat of the summer and autumn. Notifications of infectious diseases were 57; somewhat more than usual. 32 cases were removed to Hospital; those remaining at home were kept under observation, isolation maintained, disinfectants supplied, and advice given. Deaths in Hospital, 1 enteric fever and 1 scarlet fever. Deaths at home, 1 scarlet fever, and 1 enteric fever; the latter not being notified, as the nature of the illness only became apparent after death. There were also 7 deaths from diarrhœa, all in the third quarter.

**Vaccination** Tables I omit, as no longer of value. Probably one half of the children are un-vaccinated.

**Enteric Fever.**—12 cases were notified; one in March, two in April, eight in May, and one in December. The whole of them, affecting three generations, occurred in one family, or its connections. Personal intercourse was undoubtedly the main factor in the spread of the disease; and it is unnecessary to record the negative results of various enquiries in other directions. All were removed to Hospital.

*Scarlet Fever*.—37 cases, mainly in the second half year. 19 were removed to Hospital. These were not school epidemics; and occurred in all parts of the District, apparently unconnected, and among children attending all the schools.

*Measles*.—7 cases reported in May.

*Whooping Cough*.—Absent.

*Diphtheria*.—7 cases notified, no deaths. The cases were scattered over the year, and throughout the District. No definite source of infection was ever identified. Only one case was removed to Hospital.

*Influenza* caused one death in April.

*Erysipelas*, one case.

*Phthisis*.—No notifications have ever been made, (save one in 1903) although Voluntary Notification was adopted in 1901. The only information available therefore is in the death-returns. In 1911 there were 10 such deaths, which is the largest number in any year since 1889, and compares with 0 deaths in 1910.

*Schools*.—No closure of schools was reported to me during the year. Very few returns were received from any school; the total number being: Biddulph C.E. 3, Council 5, Biddulph Moor 5, Knypersley, Brindley Ford and Harriseahead 1 each, (the two latter outside the District).

*Removal to Hospital*. Mr. Gibson reports that he rarely now meets with any unwillingness on the part of parents.

**General and Special Enquiries**.—No “enquiries” were made, save such as can be found in the paragraphs dealing with infectious diseases, or inspections, or such other matters.

**The work of the Inspector of Nuisances**.—This will be found mainly in Tables 13, 14, and 15. It is Mr. Gibson’s 13th year of service. I quote from his written report under various subsequent heads. From personal knowledge I can say that, among many busy men whom I meet, I know of none who is busier than Mr. Gibson; and the general condition of the District testifies to the excellence of his administration.

**Milk Supply**.—See last year’s Report. The conditions do not vary. Mr. Gibson says “improvements have been effected, “and new buildings erected, during the year; and the white-washing is regularly and properly carried out.”

**Wholesome Food**.—A misunderstanding of the expression led to my answer in my last Report being criticised. When writing it, I was not thinking of cattle, and the possibility of tuberculous meat; for very little slaughtering takes place in the District. I was referring to smaller matters, such as game, fish, vegetables, etc., and most of these supplies come from outside, and are not affected by local “conditions.”



**Water Supply.**—Often previously described as belonging to the Council, first class in quality, and at present adequate in quantity. “In spite of the summer drought the supply has been good and sufficient. Notices were issued to prevent waste, but there was no curtailment of supply. Very valuable work has been done during the last five years. Several lengths of new mains have been laid in 1911.”—S.G.

The Congleton Corporation having given notice to discontinue their supply to the village of Whitemoor, the Council is now providing an independent supply. The quality and quantity will be good.

**Rivers Pollution.**—See last Report. There is not likely to be any alteration.

**Drainage, Sewerage, and Sewage-disposal.**—See last Report for several details.

“From the time the sewage-disposal works were completed, nearly 18 months ago, the filters have been out of work only on two days, owing to repairs required to the gear. An excellent effluent is produced, and everything is satisfactory.”—S.G.

This I can confirm from frequent visits of inspection.

“The new sewers and drains continue to work perfectly, and all the house-connections in the new drainage area are now complete. Extensions are constantly required, owing to laying out of new streets.”—S.G.

**Sanitary Conveniences.**—Please refer to page 9 for general remarks on the peat-pail; also to last Report for numbers.

“43 peat-pails have been supplied during the year, partly to new property, partly replacing old cesspools.”—S.G.

This will make the number of peat-pails 951, a figure which shows what a serious problem the Council has to face, in deciding whether to maintain or abandon the system. The peat-pails now serve more than two-thirds of the houses in the District.

“There are no complaints as to any neglect of removal, but the method certainly requires alteration. This will be mainly a question of expense.”—S.G.

**General Scavenging.**—This is carried out satisfactorily by the staff of men employed directly by the Council, under Mr. Gibson's control.

**Housing Regulations and Housing and Town Planning Act.**—The occurrence of the triennial election of a new Council caused further delay; the out-going Council refusing to act, and the incoming Council having to take the question up afresh *ab initio*.

This brought us to August before anything was settled; and it was then decided to add the duty of inspection to Mr. Gibson's other multitudinous employments. I directed him to commence with the triangle bounded by High St., Station Road, and Bogg's Lane, in the town of Bradley Green. The result is an inspection of 22 houses. Simple rule-of-three shows that it will take 23 years, at this rate, to go over the District. No indication has yet been given by the L.G.B. as to what rate of progress is required; but if it is greater than this, an increase of staff is necessary. It is also well to note that of 22 houses inspected, (by myself with Mr. Gibson, after his preliminary enquiries) only one was found satisfactory; one was condemned and closed; and 20 were scheduled for improvement. Hitherto formal notices have not been served in these latter cases; improvements have been secured by Mr. Gibson's personal influence and persuasion; but he reports to me that this is not proving altogether satisfactory; and that in future he will ask the Council to issue formal notices.

**Vital Statistics.**—Tables 5, 7, and 8, are those required by the L.G.B.

*Births.*—(Table 9). The number of births, and the birth-rate show an extraordinary fall in 1911, as compared with the previous five years, (see Table 5).

*Illegitimate Infants* numbered 12; or close on 6 per cent. of all births. 2 of them died. There were also 28 deaths among 193 legitimate children.

*Deaths.*—(Tables 7, 8, and 10). There were none in the District which belonged elsewhere; but 4 in the North Stafford Infirmary, 3 in the Workhouse, and 2 in the Isolation Hospital, had to be added to those occurring in the District. The number and the Rate are just the average of the preceding 5 years. The number includes 54 males and 48 females.

*Uncertified Deaths.*—Two.

*Coroner's Inquests* were held in 4 cases; one accident, and three disease.

*Infantile Mortality.*—This is regrettably heavy; and was appreciably increased by epidemic enteritis, which with pneumonia and debility at birth, accounts for 25 out of 30 deaths.

*Notification of Births.*—The arrangements described in my last Report continue to work well.

“During my visits I have again found the parents in most cases willing and anxious to follow any suggestions given to them. I attribute the deaths from diarrhoea among breast-fed children to the common use of dirty “comforters” in the intervals of feeding.”—Nurse Allsop.



“The work of health visiting in Biddulph is very encouraging. There is no difficulty in gaining admittance; many of the people look forward to the visit, and ask advice either for the baby or for other children. The long feeding tube is becoming less common. I believe it to be a very valuable work; it may be long in telling, but the rising generation will be the proof.”  
—Nurse Wall.

*Midwives.*—This is a County matter.

**Inspections.**—So many inspections are made constantly, in course of work already alluded to, that it is hardly possible, and certainly does not appear necessary in this District, to add “systematic inspections” of any other kind.

**Dairies and Cowsheds.**—Regular inspection.

**Bake Houses.**—Ditto.

**Slaughter Houses.**—Ditto.

**Factories and Workshops.**—See Table 15. Improvements are constantly being carried out. Thus, in one large Fustian Factory, proper water-closets have been provided in place of the former pails.

**Housing Accommodation.**—Although building is fairly active, the number of houses having increased by 256 in the decade, yet it is far behind the requirements of the District. Many men employed at the Black Bull Ironworks and Colliery are compelled to reside at a distance. Cases of overcrowding are periodically found, but it is impossible to abate it from lack of house-accommodation. If overcrowding is compulsorily abated in one house, the very act causes it to recur in another house.

**Conclusion.**—This Report is rigidly compressed, and all “trimming” has been cut off; but I hope it may yet be found complete, intelligible, and interesting.

To the Officers and Members of the Council I renew my thanks for my experience of their uniform courtesy, kindness, and assistance.

T. W. H. GARSTANG,

*D.P.H. Vict.*

*February 14th, 1912.*

# Knutsford Urban District.

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## ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH FOR 1911.

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Population at Census 1901, 5,172.

(4,686, exclusive of strangers in Public Institutions).

Population at Census 1911, 5,760.

(5,124, exclusive of strangers in Public Institutions).

Increase, 438.

Area of District in Acres (exclusive of area<sup>1</sup> covered by water) 1,760—42=1,718.

Number of Inhabited Houses, 1,135.

Average Number of Persons per House, 4·5. } At Census of  
1911.

Institutions within the District receiving sick and infirm persons from outside the District: H.M. Prison. Union Workhouse.

Institutions outside the District receiving sick and infirm persons from the District: Hospital for Infectious Diseases at Baguley; Manchester Royal Infirmary, and other Hospitals.

Other Institutions, the deaths in which have been distributed among the several localities in the District: None.

Workhouse (Bucklow Union). Situated in this District.

Birth Rate per 1,000 living, 22·0.

Death Rate per 1,000 living, 12·3.

Death Rate from Seven Principal Zymotic Diseases, 1·7.

Deaths under one year in proportion to 1,000 Births, 80.

Each birth or death contributes to the Rate 0·19516.

TABLE 16.

(Local Government Board Table I.)

Vital Statistics of Whole District during 1911 and Previous Years.

Name of District, KNUTSFORD (URBAN).

YEAR.	Gross Population.	Nett Population estimated to Middle of each Year.	BIRTHS.			TOTAL DEATHS REGISTERED IN THE DISTRICT.		TRANSFER-ABLE DEATHS.		NETT DEATHS BELONGING TO THE DISTRICT.			
			Uncorrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
				Number.	Rate.					Number.	Rate per 1000 Nett Births.	Number.	Rate.
1906	5780	4905	123	110	22'4	117	...	55	3	7	64	65	13'2
1907	5817	4948	135	124	25'1	99	...	39	2	12	97	62	12'5
1908	5903	4992	155	148	29'6	145	...	76	...	12	81	69	13'8
1909	5963	5036	126	114	22'6	133	...	71	1	11	96	63	12'5
1910	6002	5080	123	111	21'8	115	...	58	3	10	90	60	11'8
1911	5983	5124	126	113	22'0	113	...	54	4	9	80	63	12'3

TABLE 17.—(Local Government Board Table II.)

Cases of Infectious Disease notified during the Year 1911.

Name of District, KNUTSFORD (URBAN).

NOTIFIABLE DISEASE.	NUMBER OF CASES NOTIFIED.							TOTAL CASES NOTIFIED IN EACH LOCALITY.			TOTAL CASES REMOVED TO HOSPITAL.
	At all Ages.	At Ages—Years.						U.D.	WORK-HOUSE.	GAOL.	
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 45.	45 to 65.				
Small-pox ..	..	..	..	..	..	..	..	..	..	..	..
Cholera ..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria (including Membranous Croup)	..	..	..	..	..	..	..	..	..	..	..
Erysipelas ..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever	20	6	11	2	1	..	..	..	17	3	18
Typhus Fever	8	..	3	3	2	..	..	..	8	..	8
Enteric Fever	..	..	..	..	..	..	..	..	..	..	..
Relapsing Fever	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	1	..	..	..	1	..	..	..	1	..	1
Plague ..	..	..	..	..	..	..	..	..	..	..	..
Phthisis—	..	..	..	..	..	..	..	..	..	..	..
Under Tuberculosis	3	..	..	..	2	1	..	..	2	1	..
Regulations, 1908	..	..	..	..	..	..	..	..	1	..	..
Under Tuberculosis	1	..	1	..	..	..	..	..	1	..	..
Regulations, 1911	2	..	..	1	1	1	..	..	2	..	..
Others ..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	35	..	6	15	6	7	1	..	31	4	27

TABLE 18.

(Local Government Board Table III.)

Causes of, and Ages at, Death during the Year 1911.

Name of District, KNUTSFORD (URBAN).

CAUSES OF DEATH.		Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District.									Total Deaths whether of "Residents" or "non-Residents" in Institutions in the District.
		All Ages.	Under 1 year.	1 & under 2 years.	2 & under 5 years.	5 & under 15 years.	15 & under 25 years.	25 & under 45 years.	45 & under 65 years.	65 & up- wards.	
All Causes	{ Certified ... Uncertified ..	63 ..	9 ..	.. ..	6 ..	3 ..	1 ..	5 ..	15 ..	24 ..	66 ..
Enteric Fever	...	1	..	..	..	..	..	1	..	..	1
Small-pox	...	..	..	..	..	..	..	..	..	..	..
Measles	...	..	..	..	..	..	..	..	..	..	..
Scarlet Fever	...	..	..	..	..	..	..	..	..	..	..
Whooping Cough	...	5	4	..	1	..	..	..	..	..	..
Diphtheria and Croup	...	..	..	..	..	..	..	..	..	..	..
Influenza	...	..	..	..	..	..	..	..	..	..	..
Erysipelas	...	..	..	..	..	..	..	..	..	..	..
Cerebro-Spinal Fever	...	..	..	..	..	..	..	..	..	..	..
Phthisis	...	2	..	..	..	..	2	..	..	..	5
Tuberculous Meningitis	...	1	..	..	1	..	..	..	..	..	..
Other Tuberculous Diseases	...	1	..	..	..	..	1	..	..	..	1
Rheumatic Fever...	...	..	..	..	..	..	..	..	..	..	..
Cancer, Malignant Disease	...	5	..	..	..	..	..	2	3	..	4
Bronchitis	...	3	..	..	1	..	..	1	1	..	4
Broncho-Pneumonia	...	..	..	..	..	..	..	..	..	..	1
Pneumonia (all other forms)	...	6	1	..	1	2	..	2	..	..	4
Other Diseases of Respira- tory Organs	...	1	..	..	..	1	..	..	..	..	1
Diarrhoea and Enteritis	...	4	3	..	..	..	..	..	1	..	..
Appendicitis and Typhlitis	...	..	..	..	..	..	..	..	..	..	..
Alcoholism	...	2	..	..	..	..	1	..	1	..	1
Cirrhosis of Liver	...	..	..	..	..	..	..	..	..	..	..
Nephritis & Bright's Disease	...	3	..	..	..	..	..	2	1	..	..
Puerperal Fever	...	..	..	..	..	..	..	..	..	..	..
Other Accidents and Dis- eases of Pregnancy and Parturition	...	..	..	..	..	..	..	..	..	..	1
Congenital Debility and Malformation, includ- ing Premature Birth	...	..	..	..	..	..	..	..	..	..	2
Violent Deaths, excluding Suicide	...	..	..	..	..	..	..	..	..	..	..
Suicides	...	..	..	..	..	..	..	..	..	..	..
Infantile Convulsions, &c.	...	1	1	..	..	..	..	..	..	..	..
Cerebral Diseases	...	9	..	..	1	..	..	3	5	..	10
Heart Disease	...	6	..	..	1	..	..	2	3	..	9
Old Age	...	5	..	..	..	..	..	1	4	..	15
Other Defined Diseases	...	7	..	..	..	..	..	2	5	..	7
Diseases ill-defined or un- known	...	1	..	..	..	..	..	..	1	..	..
		63	9	..	6	3	1	5	15	24	66



## TABLE 19.

(Local Government Board Table IV.)

## Infant Mortality.

1911.    Nett Deaths from stated causes at various Ages under  
                                1 Year of Age.

Name of District, **KNUTSFORD (URBAN).**

CAUSE OF DEATH.			Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under One Year.
All Causes.	Certified ...	...	...	...	1	2	3	3	2	...	1	9
	Uncertified ...	...	...	...	...	...	...	...	...	...	...	...
{	Small-pox	...	...	...	...	...	...	...	...	...	...	...
	Chicken-pox	...	...	...	...	...	...	...	...	...	...	...
{	Measles	...	...	...	...	...	...	...	...	...	...	...
	Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...
{	Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...
	Whooping Cough	...	...	...	...	...	...	1	2	...	1	4
{	Diarrhœa	...	...	...	1	1	1	1	...	...	...	2
	Enteritis	...	...	...	...	1	1	...	...	...	...	1
{	Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...
	Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...	...
{	Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...
	Congenital Malformations	...	...	...	...	...	...	...	...	...	...	...
{	Premature Birth	...	...	...	...	...	...	...	...	...	...	...
	Atrophy, Debility, & Marasmus...	...	...	...	...	...	...	...	...	...	...	...
{	Atelectasis	...	...	...	...	...	...	...	...	...	...	...
	Injury at Birth	...	...	...	...	...	...	...	...	...	...	...
{	Erysipelas	...	...	...	...	...	...	...	...	...	...	...
	Syphilis	...	...	...	...	...	...	...	...	...	...	...
{	Rickets	...	...	...	...	...	...	...	...	...	...	...
	Meningitis ( <i>not Tuberculous</i> )	...	...	...	...	...	...	...	...	...	...	...
{	Convulsions	...	...	...	1	1	...	...	...	...	...	1
	Gastritis	...	...	...	...	...	...	...	...	...	...	...
{	Laryngitis	...	...	...	...	...	...	...	...	...	...	...
	Bronchitis	...	...	...	...	...	...	...	...	...	...	...
{	Pneumonia (all forms)	...	...	...	...	...	1	...	...	...	...	1
	Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...
{	Other Causes	...	...	...	...	...	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	...	...	...
			...	...	1	2	3	3	2	...	1	9

Nett Births in the year	{	legitimate	107
		illegitimate	6

Nett Deaths in the year of { legitimate infants 9  
illegitimate infants 0



TABLE 20.

## Births.

		M.	F.	Total.	Rate.	Of which Illegit.			Additional in Workhouse & Gael.					
						M.	F.	Total.	M.	F.	Total.	Illegit.		
												M.	F.	Total.
1st Quarter	...	17	19	36	28·5	2	0	2	3	1	4	2	1	3
2nd „	...	15	12	27	21·1	1	0	1	3	2	5	3	1	4
3rd „	...	7	12	19	14·7	0	1	1	1	2	3	1	2	3
4th „	...	17	14	31	24·0	2	0	2	1	1	2	1	1	0
		56	57	113	22·0	5	1	6	8	6	14	7	5	12

TABLE 21.

Shewing Deaths, Death-rates, Deaths from Special Diseases, and Old Age and Infantile Deaths, in the Four Quarters of the Year, 1911.

QUARTER ENDING.				Total Deaths.	Rate.	DEATHS.		ZYMOTIC DEATHS.		Phthisis.
						At 65 Years and up- wards.	Under One Year.	Total.	Rate.	
March 31	...	...	...	18	14·2	7	1	0	0·0	0
June 30	...	...	...	15	11·7	6	5	5	3·9	0
Sept. 30	...	...	...	14	10·9	6	2	3	1·2	1
Dec. 31	...	...	...	16	12·3	5	1	1	0·8	1
Total	...	...	...	63	12·3	24	9	9	1·7	2

TABLE 22.

## Notifications of Infectious Diseases.

(No records prior to 1895).

Year.	Small-pox.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Puerperal Fever.	Erysipelas.	Phthisis*	TOTAL.
1895	—	17	—	1	—	3		21
1896	—	5	—	—	—	6		11
1897	—	2	—	—	—	1		3
1898	—	—	1	2	—	2		5
1899	—	62	—	3	1	2		68
1900	—	3	7	2	1	1		14
1901	—	7	5	2	—	1		15
1902	—	2	3	—	1	2		8
1903	4	7	6	1	1	6		25
1904	2	2	7	1	2	3		17
1905	—	2	4	2	2	4		14
1906	—	40	4	8	—	5		57
1907	—	52	4	6	1	1		64
1908	—	10	1	2	—	1		14
1909	—	7	1	1	—	—		9
1910	—	21	—	37	—	2		60
1911	—	20	—	8	1	—	6	35

\* Included for first time.

TABLE 23.

Deaths from Zymotic Diseases.

Year.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Enteric Fever.	Diarrhœa.	TOTAL.	Phthisis.	Puerperal Fever.	Erysipelas.
1890	—	—	—	—	—	—	—	—	7	No Records	
1891	—	1	—	—	—	—	1	2	4		
1892	—	6	1	—	3	—	—	10	2		
1893	—	—	2	—	—	—	1	3	3		
1894	—	—	—	—	—	—	—	—	4		
1895	—	—	—	—	—	2	—	2	4		—
1896	—	—	—	—	3	—	3	6	—		—
1897	—	1	—	—	—	—	8	9	1		—
1898	—	—	—	—	—	—	10	10	6		—
1899	—	—	—	—	2	1	1	4	4		1
1900	—	—	—	2	—	2	3	7	4	1	—
1901	—	—	—	2	2	—	3	7	2	—	—
1902	—	3	—	—	—	—	—	3	5	1	—
1903	—	—	—	1	2	—	3	6	2	—	—
1904	1	—	—	—	1	1	2	5	3	1	—
1905	—	—	—	—	3	—	1	4	3	1	—
1906	—	5	1	—	—	2	1	9	2	—	1
1907	—	1	1	—	2	1	—	5	3	—	—
1908	—	3	—	—	1	1	2	7	1	—	—
1909	—	—	—	—	—	—	—	—	2	—	—
1910	—	—	—	—	—	4	—	4	5	—	1
1911	—	—	—	—	5	1	3	9	2	—	—

TABLE 24.

Annual Report of the Medical Officer of Health for the year 1911, for the Urban District of Knutsford, on the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, Workplaces and Homework.

## 1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.			Inspections.	Number of Written Notices.	Prosecutions.
Factories ...	...	...	6	None	None
(Including Factory Laundries.)					
Workshops ...	...	...	76	4	None
(Including Workshop Laundries.)					
Workplaces ...	...	...	2	None	None
Total ...	...	...	84	4	None

## 2.—DEFECTS FOUND.

Particulars.			Number of Defects			Number of Prosecutions
			Found.	Remedied	Referred to H.M. Inspector.	
<i>Nuisances under the Public Health Acts:—</i>						
Want of Cleanliness	...	10	10	None	None	
Total	...	10	10	None	None	

## 3.—HOME WORK.

Wearing Apparel—				Lists received from Employers.		
				Lists.	Contractors.	Workmen.
Making, &c. ...	...	...	...	2	...	4
Total ...	...	...	...	2	...	4

## 4.—REGISTERED WORKSHOPS.

Class.						Number.
Factories (1 Laundry) ...	...	...	...	...	...	6
Workshops (10 Bakehouses) ...	...	...	...	...	...	56
Domestic Workshops ...	...	...	...	...	...	2
Total number of Workshops on Register ...	...	...	...	...	...	64

## TABLE 25.

## CHESHIRE COUNTY COUNCIL.

## Tabular Summary of Sanitary Work during 1911.

## NAME OF DISTRICT, KNUTSFORD URBAN.

## I. ADOPTIVE ACTS.

Are the following in force in your District?

1. Infectious Diseases Prevention Act. *Yes.*
2. Notification of Births Act. *Yes.*
3. Public Health Acts (Amendment) Act, 1907. *No.*  
Sections in force. *None.*
4. Other Adoptive Acts. *Parts II., III., P.H.A. Amend. Act, 1890.*

## II. BYE-LAWS AND REGULATIONS.

State subject matter of any new Bye-laws or Regulations brought into force during 1911. A copy of any new Bye-laws or Regulations would be acceptable. *None.*

## III. MILK SUPPLY.

Number inspected during 1911.	
1. Number of Registered Premises at close of 1911:—	
(a) Dairies	2
(b) Cowsheds	8
(c) Milkshops	1
2. Number of Notices served for non-compliance with Regulations	3
3. Number of Legal Actions taken for non-compliance with Notices, &c. <i>None.</i>	

## IV. FOOD INSPECTION.

1. Is this systematically carried out in your District? *By County Council.*
2. Number of Slaughterhouses in your District (a) Public *None.*  
(b) Private 6.
3. Number of Inspections made of Slaughterhouses during 1911  
(a) Public *None.*  
(b) Private 21.
4. Are systematic Inspections made of premises other than Slaughterhouses where food is produced or sold? If so, please state generally nature of premises inspected. *Very few such places. They are visited occasionally.*

## V. WATER SUPPLY.

1. From what source derived. *Knutsford Light and Water Co., a private Company. From the impounding of the Pedley and Marthall Brooks.*
2. Is the supply constant or intermittent? *Constant.*
3. Any complaints as to action on lead? *None.*
4. Number of Samples analysed during 1911. *None.*
5. Are any, and if so what, parts of your District still without a proper supply? *No.*

## VI. POLLUTION OF RIVERS AND STREAMS.

In your opinion are any Rivers or Streams in your District polluted, or likely to be polluted at times, by any of the following:—



Source of Pollution,	River or Stream concerned.
(a) Public Sewage Disposal Works	<i>There are no streams except the one which is the source of the water supply, and the very small one which feeds Tatton Mere. To (b) (c) and (e) the answer is in the negative. To (a) and (d) there is some pollution, but it is kept under observation, and is minimised as much as possible.</i>
(b) Private Sewage Disposal Works	
(c) Solid matter (accumulations of cinders, refuse, sludge, &c.)	
(d) House Drainage	
(e) Manufacturing waste or effluents	

## VII. SEWERAGE AND SEWAGE DISPOSAL.

1. Specify any new works of sewerage carried on during 1911. *None.*
2. Are any, and if so what, parts of your District still without a proper system of sewers? *Only the outlying parts, which contain very few houses.*
3. By what system is sewage disposed of? *Chemical precipitation followed by treatment in contact beds composed of furnace cinders.*
4. Have there been any complaints during 1911 as to the disposal works? *No.*
5. Have any alterations or extensions taken place in the disposal works during 1911? *No.*

## VIII. SOAVENTING.

1. By whom is this carried out? *By the Council by direct labour.*
2. Approximate number of the following in your District :--  
How frequently scavenged?  

(a) Midden-privies	106	<i>Monthly.</i>
(b) Dry Ashpits	237	<i>Every six weeks.</i>
(c) Pail Closets	169	<i>Weekly.</i>
(d) Dustbins	617	<i>Weekly.</i>
(e) Cesspools	6	<i>As required.</i>
3. Is the present system in your opinion inadequate in any respect? *No—subject to remarks on Peat Pail System on p. 9.*

## IX. HOUSING.

1. Number of new houses built during 1911. 23.
2. Number of dwelling-houses inspected under s. 17 Act of 1909. 18.
3. Number of such houses considered unfit for habitation. *None.*
4. Number of representations made to Local Authority. *None.*
5. Number of closing orders made by Local Authority. *None.*
6. Number of houses where defects remedied without closing orders being made. *None.*
7. Number of houses where defects remedied after closing orders made. *None.*
8. Estimated or ascertained number of houses within limits of rent in s. 14 of Act of 1909. 250.
9. Number of such houses in respect of which notice was served during 1911. *None.*
10. Number of such houses closed after notice. *None.*
11. Number of such houses where Local Authority has executed necessary repairs, &c. *None.*
12. Approximate number of back-to-back houses in District. 20.
13. Approximate number of cellar dwellings in District. *None.*

## X. PREVENTION OF CONSUMPTION.

1. Any system of notification in force during 1911? *Voluntary; and under Order of 1908*
2. Any Sanitary Inspection of patients' houses? *Yes.*
3. Any disinfection of ditto? *Yes.*
4. Any distribution of advice? *No.*
5. Any action re spitting? *No.*

(Signed) { T. W. H. GARSTANG, M.O.H.  
R. WILSON MARSHALL, I.N. .

Date, February 17th, 1912.

TABLE 26.

## CHESHIRE COUNTY COUNCIL.

Tabular Statement of Inspector of Nuisances for the Year ended  
December 31st, 1911.

A Number and Nature of Inspections Made.	Number	B Number of Notices served.		C Result of Service of Notices.			
		Statu- tory.	Inform- al.	Notice compli- ed with.	Remain- ing in hand	Prosecutions, Insti- tuted.	Pend- ing.
1. Dwelling Houses (general inspections) ...	25	1	2	3	...	...	...
2. Cellar Dwellings .. ...	...	None in	District	...	...	...	...
3. Back-to-Back Houses ... ..	20	...	...	...	...	...	...
4. Tents, Vans, Sheds, &c....	...	None in	District	...	...	...	...
5. Courts, Yards, Passages ...	20	...	...	...	...	...	...
6. Privy-Middens, Earth or Pail Closets ..	143	16	46	72	..	...	...
7. Cesspools ... ..	6	...	...	...	...	...	...
8. House Drainage ... ..	134	12	12	24	4	...	...
9. Ditches, Watercourses, &c. ...	5	...	...	...	...	...	...
10. Offensive Accumulations ...	6	...	2	2	...	...	...
11. The keeping of Animals (P. H. A., 1875, S. 91 (3))	4	...	...	...	...	...	...
12. Offensive Trades ... ..	...	None in	District	...	...	...	...
13. (a) Slaughterhouses (Public) ...	...	None in	District	..	...	...	...
,, (Private) ... ..	21	...	5	5	...	...	...
(b) Other Places where Food is produced or sold	5	...	...	...	...	...	...
14. Piggeries ... ..	40	28	...	4	24	...	...
15. (a) Dairies... ..	2	...	...	...	..	...	..
(b) Cowsheds ... ..	23	...	3	...	...	...	..
(c) Milkshops ... ..	2	...	...	...	...	...	...
16. (a) Factories ... ..	6	...	...	..	...	...	...
(b) Workshops ... ..	76	...	4	...	..	...	...
(c) Workplaces ... ..	2	...	...	...	...	...	...
(d) Outworkers' Premises ...	...	...	...	...	...	...	...
17. Bakehouses (Overground) ...	32	...	4	...	...	...	...
,, (Underground) ... ..	...	None in	District	...	...	...	...
18. Common Lodging Houses ...	...	None in	District	...	...	...	...
19. Houses let in Lodgings ...	...	None in	District	...	...	...	...
20. Smoke Observations ... ..	..	...	...	...	...	...	...
21. Canal Boats ... ..	...	None in	District	...	...	...	...
22. Infectious Disease Inquiries and Re-visits	20	...	...	...	...	...	...
23. Miscellaneous .. ..	60	4	7	11	1	...	...
Totals ... ..	652	61	85	121	29	...	...

## KNUTSFORD URBAN DISTRICT.

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**Note.**—The matter printed on pages 3 to 10, inclusive, is to be considered a part of this Report.

**Area.**—Unchanged.

**Population.**—I have again to thank the Governor of the Gaol and the Master of the Workhouse for their courtesy in supplying information as to the number of inmates in those Public Institutions. I am thus enabled to give as the “estimate” for each year the number which was the exact “daily average,” for the preceding year.

The Census figures were first announced at 5760 gross, which puzzled me considerably until the details were obtained, showing 660 only in Public Institutions. It was a curious fact that on the night of the Census both Gaol and Workhouse were below the average. The above fixes the population of the District as 5100; and the ascertained daily averages of the Public Institutions were 24 officers, and 859 inmates (strangers), whence I arrive at the estimated population 5983 gross, 5124 nett, which is really more accurate than the Census itself.

**Hospital Accommodation.**—The District is a member of the Bucklow Joint Hospital Board, which has a contract with the Manchester Corporation for 45 beds for ordinary infectious diseases, and 12 for smallpox. It is also contemplated to retain some for phthisis, if and when a Sanatorium is equipped.

**Influences threatening the health of the District.**—None are known.

**Prevalence of Infectious Disease, and measures for prevention.**—For cases notified, see Table 17; and for comparison with previous years Table 22.

*Scarlet Fever.*—3 cases occurred in the Workhouse, and 17 in the District, mostly in February and March. All were removed to Hospital but two. No schools appeared to be involved. There were no deaths.

*Enteric Fever.*—Two cases occurred, in one house, in January, and marked the end of the 1910 epidemic. One case, imported, occurred in June. Four cases occurred in August, in the 1910 area; also one in September. All were removed to Hospital, and all recovered. One man died in the Workhouse on October 22nd, the day after admission, probably from enteric fever, (as entered in Table 18), though it had not been previously diagnosed or notified.

*Puerperal Fever.*—1 case, in December, removed to Hospital, recovered. In all human probability this life would have been lost if hospital treatment had not been available. The case occurred in the practice of a mid-wife, who was visited by the County M.O.H., and induced to retire from practice.

*Phthisis.*—6 cases notified ; but there is, as yet, no means of dealing with them.

*Vaccination Tables* I omit, as no longer of value.

*Measles.*—Not heard of, beyond 1 case in January.

*Whooping Cough.*—Half-a-dozen cases in the spring, followed by a widespread epidemic in June. S. Cross School closed June 12th to 30th. 1 death in May and 4 deaths in June, four of the five being infants under 1 year.

*Diarrhœa.*—The District enjoyed exceptional immunity during a “diarrhœa” year. Only 2 deaths occurred ; children under a month old ; in September. The other 2 deaths enumerated in Table 18 were a man of 75 years in August and a baby in December, which probably belong to a different class.

*Removal to Hospital,* 27 cases out of 29.

**General and Special Enquiries.**—“Enquiries” were on hand throughout the year, but were not of a nature to call for special report to the L.G.B. They included the infectious diseases mentioned above ; the pollution of the water supply by sewage at Chelford (Macclesfield R.D.) ; the insanitary property mentioned in my last A.R. ; back-to-back houses in general ; peat-pail scavenging ; and many other such matters.

**The work of the Inspector of Nuisances.**—Mr. R. Wilson Marshall was appointed to the vacant office in February. His work will be found tabulated in Tables 24, 25, 26 ; but of course this is a very bald statement, and conveys but little idea of the enormous amount of work he has had to undertake. He has not on this occasion submitted any detailed written report ; nor do I think one could be fairly expected ; but I hope he will be able to do so another year when he will be still more intimately acquainted with the District. As anticipated, the Council has definitely instructed him to recognise the M.O.H. as his official head ; and I am glad to report that no friction has occurred, but that I have always met with the utmost courtesy, and with prompt and satisfactory attention to my wishes.

**Milk Supply.**—There are 4 fairly large farms, and a number of smaller holdings. Milk also comes in from farms in adjoining townships (in the Rural District) ; and a large quantity is sent by train to Manchester. All these places are under inspection, not merely by the local officers, but also, if supplying Manchester, by experts from that city. Very little tuberculous milk is reported. The “conditions” are much the same as in the average Cheshire dairy district.



**Food other than Milk.**—A good many cattle are slaughtered in the District; and as a rule are of good quality. No other important food is “produced” in the District; and the C.C. is responsible for watching that which is “sold” there.

**Water Supply.**—As in previous Reports. See Table 25.

**Rivers Pollution.**—See answer in Table 25.

**Drainage, Sewerage, and Sewage Disposal.**—The District is well drained and sewered; except a few houses on “the moor” below sewer level. The main outfall sewer along the east side of the moor is probably insufficient. The treatment at the outfall is the subject of no complaint; and is as good as can be obtained under the local and unalterable limitations of area and depth available.

**Sanitary Conveniences.**—See answers in Table 25; and paragraph on page 9.

**Scavenging.**—See Table 25.

**Housing Accommodation.**—This is admittedly deficient. At the same time it is equally admitted that neither private nor public enterprise can provide cottages at a less rent than five shillings a week, unless a charge be made on the rates; and this rent is beyond the means of the persons in need of accommodation.

In my last Report I mentioned an area containing 20 houses; two cottages in Gaskell Avenue; and two in Silkmill Street. The area was the subject of a L.G.B. enquiry on January 9th, 1912, of which the result is not yet known. This is a test-case; and recommendations to the Council are suspended till “we know where we are.” A closing order was made as to one house in Silkmill Street (which practically dealt with both, as the two would have to be thrown together), but the owner appealed, and a L.G.B. enquiry was held on January 9th, 1912, of which the result is not yet known. The two cottages in Gaskell Avenue were closed; and the owner has since submitted plans for rebuilding as one cottage; but he has not a foot of land except the exact area on which the building stands, and cannot therefore provide the necessary yard-space;—moreover two adjacent sides are almost entirely occupied by other contiguous buildings; and I cannot see how any new dwelling can ever be erected on this site under these circumstances.

As soon as these old-standing problems are solved for us by higher authority, we shall no doubt be able to make better progress under the H.T.P. Act and Regulations. At the same time I must point out that Mr. Marshall has so many other duties that the time he can devote to this item is necessarily limited.

**Vital Statistics.**—Tables 16, 18—21. I will leave these to speak for themselves, as far as they include the subjects of paragraphs in previous Reports.

**Coroner's Inquests.**—One was held on a case transferred to the Rural District; four on strangers dying in the Gaol; two on strangers dying in the Workhouse; and two only in the District proper. (M., 68 years, found dead in bed; M., 45 years, fall off a cab).

**Factories and Workshops.**—No inspections were made by myself in 1911; but all were visited by Mr. Marshall in course of compiling his register. Table 24 shows that the work was not neglected.

<b>Cowsheds</b>	} Some were visited by me in company with the Inspector; all were regularly inspected by him.
<b>Bakehouses.</b>	
<b>Slaughter Houses.</b>	

**Systematic Inspections.**—These have been made.

**School Notifications.**—Total cases reported:—"influenza colds," 70; whooping cough 40, followed by an uncounted number during school closure; scarlet fever, 9; ringworm, 7; chicken pox, 4; mumps, 3; eczema, 2; measles, 1. See last Report.

**Midwives.**—There are now only 2 left. They are visited regularly, on behalf of the County M.O.H.

**Notification of Births Act.**—The work of visiting and advising mothers of new-born infants has been steadily carried out during the year. 128 cards were received, (6 outside the District), 5 still-births, 8 deaths, 5 removals, 812 visits paid. Nurse Johnstone reports that the mothers appreciate her visits, and the advice given as to feeding, clothing, &c. Breast-feeding is encouraged, and where this is impossible, the bottle-feeding is carefully supervised. Ignoring four deaths from whooping-cough, the figures are satisfactory.

**Conclusion.**—This Report is rigidly compressed on grounds of economy; but I trust will be found sufficient. I will give additional information next time on any subject which the U.D.C., or the C.C., or the L.G.B., may consider it desirable, on its being pointed out to me.

To the Officers and Members of the Council I renew my thanks for my experience of their uniform courtesy, kindness, and assistance.

**T. W. H. GARSTANG,**

*D.P.H. Vict.*

*February 6th, 1912.*



# Winsford Urban District.

## ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH FOR 1911.

Population at Census 1891, 10,440.

Population at Census 1901, 10,382. Decrease, 58.

Population at Census 1911, 10,772. Increase, 390.

Area of District in Acres (exclusive of area covered by water) 5,780—100=5,680.

Total Population at all Ages, 10,772.

Number of Inhabited Houses, 2,372.

Average Number of Persons per House, 4·54.

} At Census of  
1911.

Institutions within the District receiving sick and infirm persons from outside the District: Albert Infirmary, in Wharton. (Receives from Middlewich).

Institutions outside the District receiving sick and infirm persons from the District: Union Workhouse, at Northwich. Infectious Diseases' Hospitals at Davenham and Marbury.

Other Institutions, the deaths in which have been distributed among the several localities in the District: Nil.

Birth Rate per 1,000 living, 24·9.

Death Rate per 1,000 living, 13·7.

Death Rate from Seven Principal Zymotic Diseases, 1·4.

Deaths under one year in proportion to 1,000 Births, 147.

Hospital: In Northwich Rural District.

Workhouse: In Northwich Urban District.

Each birth or death contributes to the Rate 0·09283.

TABLE 27.

(Local Government Board Table I.)

Vital Statistics of Whole District during 1911 and Previous Years.

Name of District, WINSFORD (URBAN).

YEAR.	Population estimated to Middle of each Year.	BIRTHS.			TOTAL DEATHS REGISTERED IN THE DISTRICT.		TRANSFER-ABLE DEATHS.		NETT DEATHS BELONGING TO THE DISTRICT.			
		Uncorrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
			Number.	Rate.					Number.	Rate per 1000 Nett Births.	Number.	Rate.
1906	10577	314	...	29·7	140	...	5	1	52	166	136	12·8
1907	10616	298	...	28·1	146	...	5	3	31	104	143	13·5
1908	10655	276	...	25·9	160	...	3	7	43	156	164	15·4
1909	10694	269	...	25·1	138	...	4	8	31	115	142	13·3
1910	10733	287	...	26·7	136	...	3	...	24	84	133	12·4
1911 Census	10772	268	...	24·9	145	...	1	4	39	147	148	13·7

TABLE 28.—(Local Government Board Table II.)

Cases of Infectious Disease notified during the Year 1911.

Name of District, WINSFORD (URBAN).

NOTIFIABLE DISEASE.	NUMBER OF CASES NOTIFIED.							TOTAL CASES NOTIFIED IN EACH LOCALITY.		TOTAL CASES REMOVED TO HOSPITAL.
	At all Ages.	At Ages—Years.						OVER.	WHARTON.	
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 45.	45 to 65.			
Small-pox ...	..	..	..	..	..	..	..	..	..	..
Cholera ...	..	..	..	..	..	..	..	..	..	..
Diphtheria (including Membranous Croup)	9	..	8	..	1	..	..	..	1	6
Erysipelas ...	13	..	2	1	5	4	1	..	8	..
Scarlet Fever ...	14	..	10	2	..	..	..	..	11	12
Typhus Fever ...	..	..	..	..	..	..	..	..	..	..
Enteric Fever ...	4	..	2	..	1	1	..	..	..	4
Relapsing Fever ...	..	..	..	..	..	..	..	..	..	..
Continued Fever ...	..	..	..	..	..	..	..	..	..	..
Puerperal Fever ...	1	..	..	..	1	..	..	..	1	..
Plague ...	..	..	..	..	..	..	..	..	..	..
Phthisis—	..	..	..	..	..	..	..	..	..	..
Under Tuberculosis	..	..	..	2	..	..	..	..	1	..
Regulations, 1908	2	..	..	..	..	..	..	..	..	..
Under Tuberculosis	..	..	..	..	..	..	..	..	..	..
Regulations, 1911	..	..	..	1	1	..	..	..	..	..
Others ...	2	..	..	..	..	..	..	..	2	..
Totals ...	45	..	22	6	9	5	1	24	21	22

TABLE 29.

(Local Government Board Table III.)

Causes of, and Ages at, Death during the Year 1911.

Name of District, WINSFORD (URBAN).

CAUSES OF DEATH.	Net Deaths at the subjoined ages of "Residents" whether occurring within or without the District.									Total Deaths whether of "Residents" or "non-Residents" in Institutions in the District.
	All Ages.	Under 1 year.	1 & under 2 years.	2 & under 5 years.	5 & under 15 years.	15 & under 25 years.	25 & under 45 years.	45 & under 65 years.	65 & up- wards.	
All Causes { Certified ... { Uncertified...	146 2	37 2	6 ..	1 ..	4 ..	4 ..	14 ..	27 ..	53 ..	4 ..
Enteric Fever ... ..	..	..	..	..	..	..	..	..	..	..
Small-pox ... ..	..	..	..	..	..	..	..	..	..	..
Measles ... ..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever ... ..	..	..	..	..	..	..	..	..	..	..
Whooping Cough ... ..	1	1	..	..	..	..	..	..	..	..
Diphtheria and Croup ... ..	..	..	..	..	..	..	..	..	..	..
Influenza ... ..	..	..	..	..	..	..	..	..	..	..
Erysipelas ... ..	..	..	..	..	..	..	..	..	..	..
Cerebro-Spinal Fever ... ..	..	..	..	..	..	..	..	..	..	..
Phthisis ... ..	4	..	..	1	..	2	1	..	..	..
Tuberculous Meningitis ... ..	..	..	..	..	..	..	..	..	..	..
Other Tuberculous Diseases ... ..	3	..	1	..	..	..	2	..	..	1
Rheumatic Fever... ..	..	..	..	..	..	..	..	..	..	..
Cancer, Malignant Disease ... ..	12	..	..	..	..	..	5	7	..	..
Bronchitis ... ..	8	3	..	..	..	..	1	4	..	..
Broncho-Pneumonia ... ..	..	..	..	..	..	..	..	..	..	..
Pneumonia (all other forms) ... ..	12	3	2	..	2	1	3	1	1	1
Other Diseases of Respira- tory Organs ... ..	..	..	..	..	..	..	..	..	..	..
Diarrhoea and Enteritis ... ..	14	8	2	..	..	..	1	3	..	..
Appendicitis and Typhlitis ... ..	..	..	..	..	..	..	..	..	..	..
Alcoholism ... ..	..	..	..	..	..	..	..	..	..	..
Cirrhosis of Liver ... ..	..	..	..	..	..	..	..	..	..	..
Nephritis & Bright's Disease ... ..	2	..	..	..	..	..	2	..	..	..
Puerperal Fever ... ..	1	..	..	..	..	1	..	..	..	..
Other Accidents and Dis- eases of Pregnancy and Parturition ... ..	3	..	..	..	..	1	1	1	..	..
Congenital Debility and Malformation, includ- ing Premature Birth ... ..	16	16	..	..	..	..	..	..	..	..
Violent Deaths, excluding Suicide ... ..	4	..	..	..	..	2	1	1	..	..
Suicides ... ..	1	..	..	..	..	..	1	..	..	..
Infantile Convulsions, &c. ... ..	6	5	1	..	..	..	..	..	..	..
Cerebral Diseases ... ..	10	..	..	..	..	..	4	6	..	..
Heart Disease ... ..	24	..	..	..	2	4	5	13	..	..
Old Age ... ..	16	..	..	..	..	..	1	15	..	..
Other Defined Diseases ... ..	11	3	..	..	..	3	2	3	2	2
Diseases ill-defined or un- known ... ..	..	..	..	..	..	..	..	..	..	..
	148	39	6	1	4	4	14	27	53	4

TABLE 30.

(Local Government Board Table IV.)

## Infant Mortality.

1911. Nett Deaths from stated causes at various Ages under 1 Year of Age.

Name of District, WINSFORD (URBAN).

CAUSE OF DEATH.			Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under One Year.
All Causes.	{ Certified ...	...	9	2	2	2	15	5	9	6	2	37
	{ Uncertified ...	...	2	...	...	...	2	...	...	...	...	2
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...
Chicken-pox	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	...	...	...	...	1	1
Diarrhoea	...	...	...	...	...	1	1	1	3	3	...	8
Enteritis	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...	...
Congenital Malformations	...	...	1	...	...	...	1	...	...	...	...	1
Premature Birth	...	...	9	...	1	1	11	2	...	...	...	13
Atrophy, Debility, & Marasmus	...	...	...	1	...	...	1	...	...	...	...	1
Atelectasis	...	...	...	...	...	...	...	...	...	...	...	...
Injury at Birth	...	...	1	...	...	...	1	...	...	...	...	1
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...
Syphilis	...	...	...	...	...	...	...	...	...	...	...	...
Rickets	...	...	...	...	...	...	...	...	...	...	...	...
Meningitis ( <i>not Tuberculous</i> )	...	...	...	...	...	...	...	...	...	...	1	1
Convulsions	...	...	...	...	1	...	1	1	2	...	...	4
Gastritis	...	...	...	...	...	...	...	...	...	...	...	...
Laryngitis	...	...	...	...	...	...	...	...	...	...	...	...
Bronchitis	...	...	...	...	...	...	...	...	1	2	...	3
Pneumonia (all forms)	...	...	...	...	...	...	...	...	2	1	...	3
Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes	...	...	...	1	...	...	1	1	1	...	...	3
			11	2	2	2	17	5	9	6	2	39

 Nett Births in the year { legitimate 242  
                                   illegitimate 26

 Nett Deaths in the year of { legitimate infants 34  
                                      illegitimate infants 5



TABLE 31.—Births.

OVER.							
	M.	F.	Total.	Rate.	Of which Ille- gitimate.		
					M.	F.	Total.
1st Quarter	24	26	50	—	2	3	5
2nd „	25	25	50	—	3	1	4
3rd „	32	15	47	—	3	1	4
4th „	14	16	30	—	2	4	6
Total ...	95	85	180	24·6	10	9	19
WHARTON.							
1st Quarter	9	7	16	—	0	0	0
2nd „	16	13	29	—	0	2	2
3rd „	18	11	29	—	1	2	3
4th „	9	5	14	—	2	0	2
Total ...	52	36	88	25·4	3	4	7
Winsford Total	147	121	268	24·9	13	13	26

TABLE 32.

Shewing Deaths, Death-rates, Deaths from Special Diseases, and Old Age and Infantile Deaths, in the Four Quarters of the Year, 1911.

QUARTER ENDING.			Total Deaths.	Rate.	DEATHS.		Whooping Cough.	Diarrhoea.	ZYMOTIC DEATHS.		Phthisis.
					At 65 Years and up- wards.	Under One Year.			Total.	Rate.	
March 31	...	...	34	12·8	10	10	1	0	1	0·3	0
June 30	...	...	39	14·5	11	10	0	0	0	0·0	3
Sept. 30	...	...	41	15·1	18	12	0	14	14	5·2	1
Dec. 31	...	...	34	12·5	14	7	0	0	0	0·0	0
Total	...	...	148	13·7	53	39	1	14	15	1·4	4



TABLE 33.

## Notifications of Infectious Diseases.

Year.	Small-pox.	Typhus.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Erysipelas.	Puerperal Fever.	Phthisis*	TOTAL.
1890	—	—	23	9	3	6	1		42
1891	—	—	5	1	5	2	2		15
1892	—	—	14	12	—	17	—		43
1893	3	—	222	3	3	32	6		269
1894	—	—	11	—	3	7	2		23
1895	—	—	31	—	2	9	4		46
1896	—	—	173	4	1	17	2		197
1897	—	—	25	2	1	19	—		47
1898	—	—	11	2	1	7	1		22
1899	—	—	18	2	1	17	1		39
1900	—	—	114	6	4	21	2		147
1901	—	—	65	2	5	18	3		93
1902	—	—	20	8	1	12	3		44
1903	1	—	4	2	—	12	4		23
1904	—	—	20	1	2	20	—		43
1905	—	—	25	2	1	21	2		51
1906	—	—	6	9	2	19	2		38
1907	—	—	34	20	1	16	9		80
1908	—	1	228	29	4	14	4		280
1909	—	—	420	25	—	14	9		468
1910	—	—	55	8	—	14	1		78
1911	—	—	14	9	4	13	1	4	45

\* Now included for first time.

TABLE 34.

Deaths from Infectious Diseases.

Year.	Small-pox.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Measles.	Whooping- cough.	Diarrhoea.	TOTAL.	Phthisis.	Puerperal Fever.	Erysipelas.
1890	—	3	6	1	1	1	4	16	11	—	—
1891	—	—	2	—	—	13	7	22	14	—	1
1892	—	1	5	—	5	—	3	14	9	—	1
1893	1	7	1	—	—	—	11	20	12	3	1
1894	—	1	—	1	3	12	2	19	8	—	—
1895	—	3	—	—	9	1	17	30	10	5	—
1896	—	7	3	1	3	—	5	19	21	—	—
1897	—	—	—	—	1	33	11	45	11	—	—
1898	—	2	1	—	—	—	18	21	11	—	—
1899	—	1	—	—	7	3	6	17	13	1	1
1900	—	15	2	—	—	3	6	26	10	—	—
1901	—	2	1	2	—	1	4	10	6	—	2
1902	—	—	4	1	6	5	4	20	9	—	—
1903	—	—	—	—	—	1	8	9	8	1	—
1904	—	—	—	—	—	6	11	17	4	—	—
1905	—	1	—	—	21	1	6	29	5	1	2
1906	—	—	4	1	—	1	7	13	4	1	1
1907	—	—	5	—	1	3	2	11	5	5	1
1908	—	2	4	—	2	3	10	21	10	1	—
1909	—	8	4	—	—	—	3	15	5	2	—
1910	—	1	1	—	—	1	6	9	3	—	2
1911	—	—	—	—	—	1	14	15	4	1	—

TABLE 35.

Annual Report of the Medical Officer of Health for the year 1911, for the Urban District of Winsford, on the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, Workplaces and Homework.

## 1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.	Inspections.	Number of Written Notices.	Prosecutions.
Factories ... .. (Including Factory Laundries.)	36	2	...
Workshops ... .. (Including Workshop Laundries.)	124	2	...
Workplaces ... ..	8	...	...
Total ... ..	168	4	...

## 2.—DEFECTS FOUND.

Particulars.	Found.	Number of Defects Remedied	Referred to H.M. Inspector.	Number of Prosecutions
<i>Nuisances under the Public Health Acts :—</i>				
Want of Cleanliness ...	8	8	...	...
Want of Ventilation ...	1	1	...	...
Other Nuisances ...	2	2	...	...
Sanitary Accommodation—				
Insufficient ...	9	9	...	...
Unsuitable or Defective	2	2	...	...
Total ... ..	22	22	...	...

## 3.—HOME WORK.

	Lists received from Employers.		
	Lists.	Contractors.	Workmen.
Wearing Apparel—			
Making, &c. ... ..	2	2	22
Total ... ..	2	2	22

## 4.—REGISTERED WORKSHOPS.

Class.	Number.
Total number of Workshops on Register ... ..	114

## 5.—OTHER MATTERS.

*Matters notified to H.M. Inspector of Factories :—*

Notified by H.M. Inspector ... ..	1
In use at the end of the year ... ..	2

## TABLE 36.

## CHESHIRE COUNTY COUNCIL.

## Tabular Summary of Sanitary Work during 1911.

## NAME OF DISTRICT, WINSFORD URBAN.

## I. ADOPTIVE ACTS.

Are the following in force in your District?

1. Infectious Diseases Prevention Act. *Yes.*
2. Notification of Births Act. *No.*
3. Public Health Acts (Amendment) Act, 1907.  
Sections in force. *Parts II., III., IV., from 20th February, 1912.*
4. Other Adoptive Acts. *P.H.A.A. Act, 1890.*

## II. BYE-LAWS AND REGULATIONS.

State subject matter of any new Bye-laws or Regulations brought into force during 1911. A copy of any new Bye-laws or Regulations would be acceptable. *Nil. The whole of Bye-Laws, etc., are being revised to bring same up to date.*

## III. MILK SUPPLY.

		Number inspected during 1911.
1. Number of Registered Premises at close of 1911:—		
(a) Dairies	} 88	} 180
(b) Cowsheds		
(c) Milkshops		
2. Number of Notices served for non-compliance with Regulations	4.	
3. Number of Legal Actions taken for non-compliance with Notices, &c.	<i>Nil.</i>	

## IV. FOOD INSPECTION.

1. Is this systematically carried out in your District? *Yes.*
2. Number of Slaughterhouses in your District (a) Public *Nil.*  
(b) Private 21.
3. Number of Inspections made of Slaughterhouses during 1911  
(a) Public *Nil.*  
(b) Private 74.
4. Are systematic Inspections made of premises other than Slaughterhouses where food is produced or sold? If so, please state generally nature of premises so inspected. *None of any importance.*

## V. WATER SUPPLY.

1. From what source derived. *Springs.*
2. Is the supply constant or intermittent? *Constant.*
3. Any complaints as to action on lead? *No.*
4. Number of Samples analysed during 1911. 8.
5. Are any, and if so what, parts of your District still without a proper supply? *No.*

## VI. POLLUTION OF RIVERS AND STREAMS.

In your opinion are any Rivers or Streams in your District polluted, or likely to be polluted at times, by any of the following:—

Source of Pollution.	River or Stream concerned.
(a) Public Sewage Disposal Works	(a) <i>River Weaver.</i>
(b) Private Sewage Disposal Works	(b) <i>Nil.</i>
(c) Solid matter (accumulations of cinders, refuse, sludge, &c.)	(c) <i>Nil.</i>
(d) House Drainage	(d) <i>River Weaver.</i>
(e) Manufacturing waste or effluents	(e) <i>Nil.</i>

## VII. SEWERAGE AND SEWAGE DISPOSAL.

1. Specify any new works of sewerage carried on during 1911. *Nil.*
2. Are any, and if so what, parts of your District still without a proper system of sewers? *Part of Swanlow Lane.*
3. By what system is sewage disposed of? *Crude Sewage is run onto large Beds of Cinders, which stand on the Banks of the River Weaver.*
4. Have there been any complaints during 1911 as to the disposal works? *Nil.*
5. Have any alterations or extensions taken place in the disposal works during 1911? *Nil.*

## VIII. SCAVENGING.

1. By whom is this carried out? *The Council.*
2. Approximate number of the following in your District :—  

		How frequently scavenged?
(a) Midden-prives	1257	<i>Quarterly.</i>
(b) Dry Ashpits		<i>Monthly.</i>
(c) Pail Closets	486	<i>Weekly.</i>
(d) Dustbins		<i>When required.</i>
(e) Cesspools		
3. Is the present system in your opinion inadequate in any respect? *See subject of peat-pails, p. 9.*

## IX. HOUSING.

1. Number of new houses built during 1911. *Nil.*
2. Number of dwelling-houses inspected under s. 17 Act of 1909. 55.
3. Number of such houses considered unfit for habitation. 1.
4. Number of representations made to Local Authority. 1.
5. Number of closing orders made by Local Authority. 1.
6. Number of houses where defects remedied *without* closing orders being made. 33.
7. Number of houses where defects remedied *after* closing orders made. 1.
8. Estimated or ascertained number of houses *within limits of rent* in s. 14 of Act of 1909. 2200.
9. Number of such houses in respect of which notice was served during 1911.
10. Number of such houses closed after notice. *Nil.*
11. Number of such houses where Local Authority has executed necessary repairs, &c. *Nil.*
12. Approximate number of back-to-back houses in District. 6.
13. Approximate number of cellar dwellings in District. *Nil.*

## X. PREVENTION OF CONSUMPTION.

1. Any system of notification in force during 1911? *When a case is notified these points are attended to as far as practicable.*
2. Any Sanitary Inspection of patients' houses?
3. Any disinfection of ditto?
4. Any distribution of advice?
5. Any action *re* spitting?

(Signed) { T. W. H. GARSTANG.  
T. HICKSON.

Date, February 28th, 1912.



TABLE 37.

## CHESHIRE COUNTY COUNCIL.

Tabular Statement of Inspector of Nuisances for the Year ended  
December 31st, 1911.

A Number and Nature of Inspections Made.	Number	B Number of Notices served.		C Result of Service of Notices.			
		Statu- tory.	Inform- al.	Notice compli- ed with.	Remain- ing in hand	Prosecutions, Insti- tuted.	Pend- ing.
1. Dwelling Houses (general inspections) ...	75	54	6	48	12	...	...
2. Cellar Dwellings .. ...	Nil	...	...	...	...	...	...
3. Back-to-Back Houses ... ..	...	...	...	...	...	...	...
4. Tents, Vans, Sheds, &c. ... ..	28	..	2	2	...	...	...
5. Courts, Yards, Passages ... ..	71	50	14	55	9	...	...
6. Privy-Middens, Earth or Pail Closets ..	636	55	49	88	16	...	...
7. Cesspools ... ..	16	...	4	4	...	...	...
8. House Drainage ... ..	223	51	32	71	12	...	...
9. Ditches, Watercourses, &c. ... ..	14	...	4	3	1	...	...
10. Offensive Accumulations .. ...	8	...	8	8	...	...	...
11. The keeping of Animals (P.H.A., 1875, S. 91 (3))	12	...	4	4	...	...	...
12. Offensive Trades ... ..	9	...	2	2	...	...	...
13. (a) Slaughterhouses (Public) ... ..	Nil	...	...	...	...	...	...
"      (Private) ... ..	74	...	6	6	...	...	...
(b) Other Places where Food is produced or sold	...	...	...	...	...	...	...
14. Piggeries ... ..	26	2	8	8	2	...	...
15. (a) Dairies ... ..	180	...	176	174	2	...	...
(b) Cowsheds ... ..							
(c) Milkshops ... ..							
16. (a) Factories ... ..	36	2	...	1	1	...	...
(b) Workshops ... ..	124	2	19	21	..	...	...
(c) Workplaces ... ..	8	...	...	...	...	...	...
(d) Outworkers' Premises ... ..	22	...	1	1	...	...	...
17. Bakehouses (Overground) ... ..	38	...	4	4	...	...	...
"      (Underground) ... ..	8	...	...	...	...	...	...
18. Common Lodging Houses ... ..	12	...	...	...	...	...	...
19. Houses let in Lodgings ... ..	Nil	...	...	...	...	...	...
20. Smoke Observations ... ..	7	...	5	5	...	...	...
21. Canal Boats ... ..	3	...	3	3	...	...	...
22. Infectious Disease Inquiries and Re-visits	180	...	...	...	...	...	...
23. Miscellaneous .. ...	128	49	39	79	9	...	...
Totals ... ..	1938	265	386	587	64	...	...



## WINSFORD URBAN DISTRICT.

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**Note.**—The matter found on pages 3 to 10, inclusive, is to be read as part of this Report.

**Area.**—Unchanged.

**Population.**—The Census figures showed a population of 10,772, which exceeded the estimate by the small number of 40 only.

**Hospital Accommodation.**—The District is partner with Northwich R., Northwich U., and Middlewich U.; and has a Hospital at Davenham with 34 beds; in which 3 diseases can be treated concurrently. Also the old wooden buildings at Marbury are reserved for small-pox.

**Influences threatening the Health of the District.**—None known; unless one may include the privations which accompany periods of depression in trade.

**Prevalence of Infectious Diseases.**—Table 28 shows 45 cases notified. School notices report other diseases, as follows.

*Enteric Fever.*—4 cases. One in January and two in March were all from one house. The fourth case occurred in September. The usual enquiries were carefully made, but no indication of cause obtained. All were removed to Hospital; and all recovered, (though the last case is not yet discharged).

*Small-pox.*—Absent. I discontinue the Vaccination Tables, as no longer of use. Probably more than half the children born during the last 3 years are unvaccinated.

*Measles.*—2 cases reported in January and March from Dierden Street Infants' School; otherwise not heard of.

*Scarlet Fever.*—14 cases notified, of which 12 were removed to Hospital. 11 of the cases occurred on the Wharton side, mainly in May and July. They can hardly be described as an epidemic. No deaths.

*Whooping Cough.*—36 cases occurred from August to October in High Street Infants' School. There were suspicions at Whitegate School in November which were not verified. Not otherwise heard of, except a solitary death in March.

*Mumps.*—21 cases in November and December in High Street Infants' School; 20 at same date in Wharton Boys' School; and 34 in Dierden Street Infants' School which was closed on December 8th till the end of the year.

*Diphtheria.*—9 notifications; all but one on the Over side; 6 removed to Hospital; no deaths. 3 of the cases were in one house.

*Erysipelas*.—13 cases notified ; of no great importance.

*Phthisis*.—Two cases notified under the 1908 Regulations ; two by voluntary notification. Disinfection offered, and advice given. 4 deaths recorded during the year.

*Puerperal Fever*.—One case notified in January, which proved fatal. It occurred in the practice of a midwife, who was adjudged to have broken the Rules and who was removed from the Roll.

*Diarrhæa*.—This was very prevalent, and very fatal, during the hot months. Four persons of advanced age (two over 70) succumbed ; the remainder were as usual infants, and mainly only a few months old.

*Disinfection*.—In all cases of notified infectious diseases, the house has been at once visited, and the circumstances investigated. Whenever possible, removal to Hospital has been effected, and the sick-room and its contents disinfected. If the case has remained at home, close watch has been maintained until recovery, and disinfection then carried out. About 180 such enquiries and re-visits have been made. 28 houses have been disinfected, besides bedding and clothing ; and three lots of bedding have been destroyed.—T.H.

**Enquiries.**—So far as I can remember, there were no “enquiries” (I am a little in doubt as to the exact meaning of the word) save such as were incidental to “inspections” under which head they are described. Enquiries and inspections are of course being made by the Inspector every day, and at each visit to the District I personally inspect (with him) any place or matter of sufficient importance among them. These however are mere routine duties, and I cannot record them in detail.

**The work of the Inspector of Nuisances.**—This is given in tabular form in Tables 35, 36, and 37. Besides these Mr. Hickson has kindly supplied me with a long written report. Instead of printing it separately, I shall insert the various paragraphs (identified by his initials) under the respective official headings. It is his sixth Annual Report ; and affords proof of the enormous amount of work he manages to get through.

**Milk Supply.**—Notices to cleanse and limewash premises have been sent out to all owners or occupiers twice during the year, and the work has been satisfactorily carried out. Some of the older buildings are of faulty construction, and very difficult to keep clean. These are frequently visited, and conditions are improved as opportunity offers. During 1911 the cowsheds at the Nun House Farm, (one of the largest in the District and formerly very unsatisfactory in this matter), have been entirely re-arranged, and are now satisfactory and up to date. The

M.O.H. has frequently accompanied me on these inspections, and several other important matters are under consideration.—T.H.

The general position remains as described in my last Annual Report.

**Foods other than Milk.**—Among the 21 Slaughter-houses, two in particular are frequently the subject of communications from the Manchester Abattoirs as sending up unsound meat. The butchers say the meat is not intended for food until it has been passed by the Inspector at the Abattoirs. If condemned by him, they acquiesce in its destruction. The technical legal position thus created is a very curious one, and requires a remedy from the highest authority.

I venture to suggest that every slaughter-house, every owner, every occupier, and every slaughterer, should be separately licensed; with power for the Council (with or without the Justices) to revoke any of such licenses at short notice by easy process. And that a qualified Veterinary Surgeon should be appointed for the County by the County Council, to assist any local Inspector of Nuisances, on demand by telegraph, in deciding on the condemnation or passing of any meat, dead or alive, found in a butcher's possession; with an additional power to the local Inspector, viz. to detain, pending such inspection by the County Officer, any meat he might suspect, without "seizing" it formally. My belief is that these measures would put an end to the trade in unsound meat, and that nothing less will be effective.

As to other foods, there are no complaints, and inspection is carried out by the County Council.

**Water Supply.**—Frequently described in previous Reports. See Table 36.

**Rivers' Pollution.**—There are no rivers or streams beyond the River Weaver. This river and its tributaries flow through the great salt-making district of Cheshire, which includes also a considerable number of chemical works. My private opinion is that any little organic pollution arising in this District is of no importance whatever, in view of the normal condition of the river.

**Drainage, Sewerage, and Sewage Disposal.**—This remains unchanged. See last Annual Report and also previous ones.

**Sanitary Conveniences.**—The number of privy-middens is 1257, a reduction of 74. Many numerical details will be found in Tables 36 and 37. Peat-pails are 486, an increase of 57. Water-closets are 677, an increase of 18. All defects found have been remedied.—T.H.

On the subject of peat-pails see page 9. The question for the Council is a very pressing and serious one. See also last Report.

**Scavenging.**—Privy-middens quarterly by farmer-contractors. Pails, ashpits, etc. by the Council's own staff, under Mr. Wilkinson, the Surveyor.

Pails once a week, ashpits once a month. 32 portable ash-bins have been provided, as a beginning of a new policy to reduce the number of old ash-pits.—T.H.

**Housing Accommodation.**—At the beginning of February, 1912, it was reported that there was not a vacant house in Wharton, and only eleven in Over, (mostly large houses). It also appears that not a single set of plans for a dwelling house has been submitted to the Council for something like eighteen months. There is therefore a definite shortage of houses for the working classes. But the problem is more complicated. The shortage exists to-day, because of an improvement in trade. Eighteen months ago there were numerous houses empty ; and it will probably be the same in the future.

During the year 75 houses in various parts of the District have been inspected by the M.O.H. and Inspector. 55 were dealt with under Sect. 17 of the H.T.P. Act, 1909, and their condition carefully entered up in a special Register. Separate notices have been served for all houses where defects were found. In the case of 33 houses (mostly in Princess Street) repairs are completed ; and in most of the remainder are in progress. The improvements include conversion of privy-middens to peat-pails or water-closets ; fixing slopstones with waste-pipes ; provision of better ash-pits, or sanitary ash-bins ; paving of yards and passages ; repairs to drains and gullies ; repairs to walls, roofs, gutters and rain-pipes. Numerous visits, inspections, and interviews, beyond those tabulated, have been made both by the M.O.H. and the Inspector.—T.H.

In connection with this work, the Council, at my request, appointed a small special Health Committee ; which (early in 1912) has been elevated into a Standing Committee, comprising all the members of the Council, with an independent time of meeting. This Committee already has under consideration the revision of the byelaws, the adoption of parts of the P.H.A.A. Act, 1907, etc.; and it ought at least to be recognised as a proof of a genuine desire on the part of the Council to repair and strengthen their administrative machinery. It marks also a long step in advance, since my last Report.

**Vital Statistics.**—See Tables 27, and 29 to 32. The particulars given in the Tables seem to be ample, and self-explanatory. There is nothing that really requires further discussion.

**Midwives.**—Quarterly inspections made by myself on behalf of the County M.O.H.



**Slaughter Houses.**—19 licensed and 2 registered. Licenses renewed annually. Frequently inspected, and defects remedied.—T.H.

**Common Lodging House.**—Only one on the register. Regularly visited, and found clean and well-conducted.—T.H.

**Schools.**—All the Schools are disinfected twice a year, during holidays; also whenever closed on account of sickness.—T.H.

**Vans.**—28 inspections of Vans used as dwellings have been made at the Over Fair Ground and other places. They are generally clean and in good order; and no overcrowding was discovered. A death from diphtheria (contracted before reaching Winsford) occurred in a Van; and isolation and disinfection were thoroughly carried out, part of the bedding being destroyed. The father and two brothers of the deceased child developed the disease, and were removed to Hospital, where they all recovered.—T.H.

**Overcrowding.**—4 cases have been formally dealt with.—T.H.

**Canal-boats.**—This work diminishes steadily; and only 2 boats remain on the register. The rest are registered under the Merchant Shipping Acts. Three boats have been inspected, and minor defects remedied.—T.H.

**Factories and Workshops.**—These places have been under systematic observation, and the conditions as to cleanliness and other matters, especially as regards most of the Factories, are satisfactory. Closet accommodation has been provided at two Workshops, where none previously existed, and nine new Closets have been erected at two Salt Factories. Negotiations are in progress with the United Velvet Cutters' Association for an additional means of escape in case of fire at their Factory in Well Street. A summary of the visits made, and other matters dealt with, appears in the Table of Inspections under the above head. **Home Work.**—Messrs. Crook & Sons, Clothing Workshop, Siddorn Street, is the only firm in the District giving out Home Work. The firm has during the year supplied two lists, one in February and one in August, each list containing eleven names. Twenty-two inspections under this head have been made. A case of infectious disease having occurred in one of the homes, the matter was promptly and effectively dealt with. No other causes of complaint have arisen.—T.H.

**Conclusion.**—This Report is rigidly compressed, on grounds of economy; I hope not too much so.

To the Officers and Members of the Council I very sincerely tender my thanks for their uniform courtesy, kindness, and assistance.

**T. W. H. GARSTANG,**

*March 1st, 1912.*

*D.P.H. Vict.*

# Bucklow Rural District.

## ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH FOR 1911.

Population at Census 1901, 19,850.

Population at Census 1911, 22,870.

Ditto, less Public Institutions, 21,979.

Area of District in Acres (exclusive of area covered by water)  $57,642 - 544 = 57,098$ .

Number of Inhabited Houses, 4,971.

Average Number of Persons per House, 4'4. } At Census of  
1911.

Institutions within the District receiving sick and infirm persons from outside the District: St. Anne's Home, Dunham Massey, (Manchester Consumption Hospital). Baguley Sanatorium for General Infectious Diseases. (Manchester Corporation). David Lewis Epileptic Colony. Marthall.

Institutions outside the District receiving sick and infirm persons from the District: Union Workhouse, Knutsford. General Hospital, Altrincham. Manchester Royal Infirmary. Monsall Hospital.

Other Institutions, the deaths in which have been distributed among the several localities in the District: Nil.

Birth Rate per 1,000 living, 19'0.

Death Rate per 1,000 living, 11'7.

Death Rate from Seven Principal Zymotic Diseases, 1'1.

Deaths under one year in proportion to 1,000 Births, 110.

Hospital. }  
Workhouse. } See above.

Each birth or death contributes to the Rate 0'04550.



TABLE 38.

(Local Government Board Table I.)

Vital Statistics of Whole District during 1911 and Previous Years.

Name of District, BUCKLOW (RURAL).

YEAR.	Gross Population. Nett Population estimated to Middle of each Year.		BIRTHS.			TOTAL DEATHS REGISTERED IN THE DISTRICT.		TRANSFER-ABLE DEATHS.		NETT DEATHS BELONGING TO THE DISTRICT.			
			Uncorrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
				Number.	Rate.					Number.	Rate per 1000 Nett Births.	Number.	Rate.
1906	21400	20428	474	...	23·2	255	...	...	...	55	116	261	12·7
1907	21710	20738	407	...	19·6	249	...	...	...	33	81	248	11·9
1908	22020	21048	461	...	21·9	245	...	...	...	46	100	242	11·5
1909	22330	21358	423	...	19·8	214	...	...	...	28	66	259	12·1
1910	22640	21668	439	...	20·2	215	...	...	...	28	64	220	10·1
1911	22951	21979	417	..	19·0	262	...	38	31	46	110	258	11·7

TABLE 39.—(Local Government Board Table II.)

Cases of Infectious Disease notified during the Year 1911.

Name of District, BUCKLOW (RURAL).

NOTIFIABLE DISEASE.	NUMBER OF CASES NOTIFIED.							TOTAL CASES NOTIFIED IN EACH LOCALITY.					TOTAL CASES REMOVED TO HOSPITAL.
	At Ages—Years.							Altrincham.	Lymm.	Knutsford.	Wilmslow.	Sale.	
	Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 45.	45 to 65.	65 and upwards.						
Small-pox ...	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera ...	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria (including Membranous Croup)	..	3	9	..	1	..	..	..	7	1	..	5	5
Erysipelas ...	17	1	1	2	6	3	4	..	..	8	2	6	4
Scarlet Fever	70	11	46	11	2	..	..	20	..	5	10	35	62
Typhus Fever	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric Fever	19	1	4	5	9	..	..	18	..	..	..	1	19
Relapsing Fever	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	2	..	..	1	1	..	..	1	..	1	..	..	..
Plague ...	..	..	..	..	..	..	..	..	..	..	..	..	..
Phthisis—	..	..	..	..	..	..	..	..	..	..	..	..	..
Under Tuberculosis	..	..	..	3	1	..	..	..	4	..	..	..	..
Regulations, 1908	4	..	..	..	..	..	..	..	..	..	..	..	..
Under Tuberculosis	..	..	..	..	..	..	..	..	..	..	..	..	..
Regulations, 1911	5	..	..	2	2	1	..	..	4	..	1	..	..
Others ...	1	..	..	1	..	..	..	..	..	..	..	1	..
Totals ...	131	16	60	25	22	4	4	4	54	15	13	48	90

TABLE 40.

(Local Government Board Table III.)

Causes of, and Ages at, Death during the Year 1911.

Name of District, BUCKLOW (RURAL).

CAUSES OF DEATH.		Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District.								Total Deaths whether of "Residents" in or "non-Residents" in the Institutions in the District.	
		All Ages.	Under 1 year.	1 & under 2 years.	2 & under 5 years.	5 & under 15 years.	15 & under 25 years.	25 & under 45 years.	45 & under 65 years.		65 & up- wards.
All Causes	{ Certified ... Uncertified ..	257 1	45 1	9 ..	8 ..	7 ..	10 ..	25 ..	60 ..	93 ..	26 ..
Enteric Fever	...	...	...	...	...	...	...	...	...	...	2
Small-pox	...	...	...	...	...	...	...	...	...	...	...
Measles	...	1	...	...	...	1	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	8
Whooping Cough	...	7	3	3	1	...	...	...	...	...	...
Diphtheria and Croup	...	1	...	...	1	...	...	...	...	...	8
Influenza	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...
Cerebro-Spinal Fever	...	...	...	...	...	...	...	...	...	...	...
Lead Poisoning	...	1	...	...	...	...	...	1	...	...	...
Phthisis	...	12	...	...	...	2	4	6	...	...	...
Tuberculous Meningitis	...	3	2	1	...	...	...	...	...	...	...
Other Tuberculous Diseases	...	1	...	1	...	...	...	...	...	...	...
Rheumatic Fever...	...	...	...	...	...	...	...	...	...	...	...
Cancer, Malignant Disease	...	29	...	...	...	...	...	2	14	13	...
Bronchitis	...	16	4	...	...	1	...	1	3	7	...
Broncho-Pneumonia	...	10	4	1	1	...	...	1	1	2	...
Pneumonia (all other forms)	...	12	...	...	...	1	1	2	4	4	...
Other Diseases of Respira- tory Organs	...	1	...	...	...	...	...	...	...	1	...
Diarrhoea and Enteritis	...	16	9	3	2	...	...	...	...	2	...
Appendicitis and Typhlitis	...	1	...	...	...	...	...	...	...	1	...
Alcoholism	...	1	...	...	...	...	...	1	...	...	...
Cirrhosis of Liver	...	2	...	...	...	...	...	...	1	1	...
Nephritis & Bright's Disease	...	7	...	...	...	...	...	1	3	3	...
Puerperal Fever	...	2	...	...	...	...	2	...	...	...	...
Other Accidents and Dis- eases of Pregnancy and Parturition	...	...	...	...	...	...	...	...	...	...	...
Congenital Debility and Malformation, includ- ing Premature Birth	...	16	16	...	...	...	...	...	...	...	...
Violent Deaths, excluding Suicide	...	10	..	...	2	...	2	1	3	2	1
Suicides	...	...	...	...	...	...	...	...	...	...	...
Infantile Convulsions, &c.	...	6	6	...	...	...	...	...	...	...	...
Cerebral Diseases	...	21	...	...	...	1	...	5	6	9	6
Heart Disease	...	31	...	...	1	1	...	2	15	12	...
Old Age	...	30	...	...	...	...	...	...	1	29	...
Other Defined Diseases	...	21	2	...	...	...	1	2	9	7	1
Diseases ill-defined or un- known	...	...	...	...	...	...	...	...	...	...	...
		258	46	9	8	7	10	25	60	93	26

TABLE 41.

(Local Government Board Table IV.)

### Infant Mortality.

1911.    Nett Deaths from stated causes at various Ages under  
               1 Year of Age.

Name of District, BUCKLOW (RURAL).

CAUSE OF DEATH.			Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under One Year.
All Causes.	Certified ...	...	10	1	1	3	15	6	10	7	7	45
	Uncertified	...	1	...	...	...	1	...	...	...	..	1
	Small-pox	...	...	...	..	...	...	...	...	...	...	...
	Chicken-pox	..	...	...	...	...	...	...	...	...	...	...
	Measles	...	...	...	...	...	...	...	...	...	...	...
	Scarlet Fever	...	..	...	...	...	...	...	...	...	...	...
	Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...
	Whooping Cough	...	...	...	...	...	...	1	2	...	...	3
	Diarrhoea	...	...	...	1	1	2	2	3	1	...	9
	Enteritis	...	...	...	...	...	...	...	...	...	...	...
	Tuberculous Meningitis	...	...	...	...	...	...	...	2	...	...	2
	Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...	...
	Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...
	Congenital Malformations	...	3	...	...	3	...	1	...	...	...	4
	Premature Birth	...	5	1	...	1	7	1	...	...	...	8
	Atrophy, Debility, & Marasmus	...	1	...	1	2	1	1	...	1	...	5
	Atelectasis	...	1	...	...	1	...	...	...	...	...	1
	Injury at Birth	...	...	...	...	...	...	...	...	...	...	...
	Erysipelas	..	...	...	...	...	...	...	...	...	...	...
	Syphilis	...	...	...	...	...	...	...	...	...	...	...
	Rickets	...	...	...	...	...	...	...	...	...	...	...
	Meningitis	...	...	...	...	...	...	...	...	...	...	...
	Convulsions	...	1	...	...	1	2	1	...	1	...	5
	Gastritis	...	...	...	...	...	...	...	...	...	...	...
	Laryngitis	..	...	...	...	...	...	...	...	...	...	...
	Bronchitis	...	...	...	...	...	1	2	...	1	...	4
	Pneumonia (all forms)	...	...	...	...	...	...	1	...	3	...	4
	Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...
	Other Causes	...	...	...	1	1	...	...	...	...	...	1
			11	1	1	3	16	6	10	7	7	46

Nett Births in the year	{	legitimate	405	Nett Deaths in the year of	{	legitimate infants	42
		illegitimate	12			illegitimate infants	4

TABLE 42.—Births 1911.

Rural part of Sub-District of	1st Quarter.				2nd Quarter.				3rd Quarter.				4th Quarter.				Total.			
	M.	F.	Total.	Rate.	M.	F.	Total.	Rate.	M.	F.	Total.	Rate.	M.	F.	Total.	Rate.	M.	F.	Total.	Rate.
Altrincham	16	25	41	...	14	25	39	...	23	14	37	...	21	15	36	...	74	79	153	19·5
Lynn	2	7	9	...	6	4	10	...	8	7	15	..	6	7	13	...	22	25	47	16·4
Knutsford	5	11	16	...	9	8	17	...	10	4	14	...	8	13	21	...	32	36	68	18·2
Wilmslow	5	6	11	...	9	5	14	...	8	10	18	...	3	15	18	...	25	36	61	20·9
Sale	14	8	22	...	11	13	24	...	12	14	26	...	12	4	16	...	49	39	88	19·5
Total	42	57	99	17·4	49	55	104	19·0	61	49	110	19·9	50	54	104	18·8	202	215	417	19·0



TABLE 43.

Deaths 1911.

Rural part of Sub-District of	1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Total.	
	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.
Altrincham	31	—	19	—	24	—	29	—	103	13·1
Lymm ...	11	—	3	—	11	—	12	—	37	12·9
Knutsford ...	11	—	7	—	10	—	9	—	37	9·9
Wilmslow .	4	—	9	—	2	—	10	—	25	8·5
Sale ...	16	—	12	—	17	—	11	—	56	12·4
Total ...	73	12·9	50	9·1	64	11·6	71	12·8	258	11·7

TABLE 44.

Cases of Infectious Diseases notified, 1911, arranged according to Localities.

	Scarlet Fever.	Diphtheria.	Enteric Fever.	Erysipelas.	Puerperal Fever.	Phthisis.	Total.		Scarlet Fever.	Diphtheria.	Enteric Fever.	Erysipelas.	Puerperal Fever.	Phthisis.	Total.
Ashley ... ..								Agden ... ..							
Dunham Massey ...	6	2	15		1	4	28	Aston-by-Budworth ...							
Ringway ... ..		2					2	Bollington ... ..							
Timperley ... ..	14	3	3			4	24	High Legh ... ..				1			1
								Millington ... ..							
<i>Altrincham</i> ... ..								Partington ... ..							
<i>District</i> } ... ..	20	7	18		1	8	54	Warburton ... ..							
								<i>Lymm District</i> ... ..				1			1
Bexton ... ..				1			1	Mobberley ... ..							
*Marthall ... ..	3	1		7			11	Northern Etchells ...					1		1
Mere ... ..								*Styal ... ..	10			4			14
Ollerton ... ..								<i>Wilmslow District</i> ...	10			4		1	15
Peover Inferior ...															
Peover Superior ...								Baguley ... ..	8						8
Pickmere ... ..								Carrington ... ..							
Plumbley ... ..								Northenden ... ..	27	5	1	4		1	38
Rostherne ... ..					1		1	<i>Sale District</i> ... ..	35	5	1	4		1	46
Tabley Inferior ...															
Tabley Superior ...								SUMMARY :							
Tatton ... ..	2						2	<i>Altrincham</i> ... ..	20	7	18		1	8	54
Toft ... ..								<i>Lymm</i> ... ..				1			1
								<i>Knutsford</i> ... ..	5	1		8	1		15
<i>Knutsford District</i> ...	5	1		8	1		15	<i>Wilmslow</i> ... ..	10			4		1	15
								<i>Sale</i> ... ..	35	5	1	4		1	46
								<i>Bucklow District</i> ...	70	13	19	17	2	10	131

\*1 Scarlet fever and 7 erysipelas were in the David Lewis Colony.

\*All in the Cottage Homes except 1 case of erysipelas.

TABLE 45.

Shewing Population, Census, 1911; Total Deaths, Deaths from Special Diseases, and at Special Ages, in entire Sanitary District, the Registration Sub-Districts, and the individual Townships, in 1911.

POPULATION CENSUS 1911.	REGISTRATION DISTRICTS AND TOWNSHIPS.	TOTAL DEATHS.	DEATHS FROM SPECIAL DISEASES.							TWO GROUPS OF AGES.	
			Scarlet Fever.	Diphtheria. Enteric Fever.	Measles.	Whooping Cough.	Diarrhoea.	Phthisis.	Puerperal Fever.	At 65 Years and Upwards.	Under 1 Year.
413	Ashley ...	2	...	...	...	...	...	...	...	...	2
2928	Dunham Massey ...	31	...	...	...	...	...	5	1	7	8
452	Ringway ...	11	...	...	...	1	...	...	...	1	4
4090	Timperley ...	59	...	...	...	4	8	2	1	19	10
7888	<i>Altrincham District</i> ...	103	...	...	...	5	8	7	2	27	24
102	Agden ...	1	...	...	...	...	...	...	...	...	...
406	Aston-by-Budworth ...	5	...	...	...	...	...	...	...	1	3
193	Bollington ...	3	...	...	...	...	...	...	...	1	2
778	High Legh ...	12	...	...	...	...	...	...	...	1	6
233	Millington ...	3	...	...	...	...	...	...	...	...	...
758	Partington ...	8	...	...	...	...	3	1	...	...	1
403	Warburton ...	5	...	...	...	...	1	...	...	1	4
2873	<i>Lymm District</i> ...	37	...	...	...	...	4	1	...	4	16
101	Bexton ...	1	...	...	...	...	...	...	...	...	...
524	Marthall ...	2	...	...	...	...	...	...	...	1	...
467	Mere ...	6	...	...	...	...	...	...	...	1	1
259	Ollerton ...	3	...	...	...	...	...	...	...	...	1
148	Peover Inferior ...	...	...	...	...	...	...	...	...	...	...
574	Peover Superior ...	8	...	...	...	1	...	...	...	2	3
244	Pickmere ...	...	...	...	...	...	...	...	...	...	...
359	Plumbley ...	2	...	...	...	...	...	...	...	...	2
382	Rostherne ...	4	...	...	...	...	...	...	...	1	2
139	Tabley Inferior ...	1	...	...	...	...	...	...	...	1	...
479	Tabley Superior ...	8	...	...	...	...	...	...	...	...	6
119	Tatton ...	1	...	...	...	...	...	...	...	...	1
187	Toft ...	1	...	...	...	...	...	...	...	...	...
3982	<i>Knutsford District</i> ...	37	...	...	...	1	...	...	...	6	16
1406	Mobberley ...	14	...	...	...	...	...	1	...	1	7
823	Northern Etchells ...	6	...	...	...	...	...	...	...	...	3
1309	Styal ...	5	...	...	...	...	...	...	...	...	4
3538	<i>Wilmslow District</i> ...	25	...	...	...	...	...	1	...	1	14
970	Baguley ...	7	...	...	...	...	...	1	...	...	4
522	Carrington ...	8	...	...	...	...	...	1	...	...	3
3097	Northenden ...	41	...	1	1	1	4	1	...	8	16
4589	<i>Salc District</i> ...	56	...	1	1	1	4	3	...	8	23
22870	{ <i>Bucklow Rural District.</i> }	258	...	1	1	7	16	12	2	46	93

TABLE 46.

## Notifications of Infectious Diseases.

Year.	Small-pox.	Scarlatina.	Diphtheria.	Enteric Fever.	Puerperal Fever.	Phthisis*	Erysipelas.	TOTAL.
1890	—	26	5	5	1		2	39
1891	—	28	5	7	—		8	48
1892	—	68	8	18	2		11	107
1893	—	193	18	14	1		14	240
1894	1	116	40	7	2		16	182
1895	2	39	19	11	3		5	79
1896	—	31	9	19	1		5	65
1897	—	42	3	8	—		6	59
1898	—	19	11	6	—		9	45
1899	—	83	6	7	2		8	106
1900	—	79	8	6	—		3	96
1901	—	120	23	6	—		9	158
1902	—	46	37	6	4		9	102
1903	6	52	25	7	—		7	97
1904	—	79	27	2	3		6	117
1905	—	58	31	2	3		14	108
1906	—	75	17	5	1		8	106
1907	—	53	9	4	1		5	72
1908	1	65	25	2	2		10	105
1909	—	156	7	41	1		1	206
1910	—	94	14	6	1		8	123
1911	—	70	13	19	2	10	17	131

\* Now included for first time.

TABLE 47.

## Deaths from Special Diseases.

Year.	Small-pox.	Measles.	Scarlatina.	Diphtheria.	Whooping-cough.	Enteric Fever.	Diarrhoea.	Phthisis.	Erysipelas.	Puerperal Fever.
1890	—	5	1	—	3	3	8	43	1	1
1891	—	1	1	1	5	4	6	40	—	—
1892	—	13	3	1	7	3	6	32	2	2
1893	2	3	6	6	1	7	18	28	3	1
1894	—	1	4	5	8	1	5	29	3	1
1895	1	—	2	5	3	4	2	22	1	3
1896	—	1	—	6	3	3	4	23	—	1
1897	—	16	1	2	1	3	15	26	—	—
1898	—	3	1	2	—	2	11	19	—	—
1899	—	—	3	1	7	3	16	29	1	2
1900	—	—	1	1	8	1	7	22	—	—
1901	—	1	2	5	8	2	10	15	1	—
1902	—	1	2	7	1	—	1	10	—	4
1903	2	2	4	7	6	1	8	18	2	—
1904	—	1	2	2	7	1	8	17	1	1
1905	—	5	4	4	1	1	6	12	—	—
1906	—	4	—	4	—	—	11	15	—	1
1907	—	1	1	—	2	—	2	13	—	—
1908	—	2	1	6	7	—	5	10	—	—
1909	—	1	4	—	—	—	3	14	—	—
1910	—	3	—	1	1	1	1	9	—	1
1911	—	1	—	1	7	—	16	12	—	2



TABLE 48.

Factories and Workshops. Cow-keepers and Milk-sellers.

TOWNSHIP.	Mr. McKenzie.—On Register.						Mr. Metcalfe.	
	Inspections	Defects Found and Notices Served.	Factories.	Workshops	Domestic Workshops	Total.	Cow-keepers.	Milk-sellers.
Agden ..	2	—	—	2	—	2	3	1
Ashley ...	5	5	—	3	2	5	26	15
Aston-by-Budworth ..	4	1	1	—	3	4	38	9
Baguley ..	9	—	—	7	2	9	18	2
Bexton ...	3	—	2	1	—	3	5	4
Bollington ...	2	—	1	1	—	2	10	6
Carrington ...	9	2	—	6	3	9	9	1
Dunham Massey ...	24	1	7	15	4	26	37	16
High Legh ...	9	3	1	5	3	9	44	12
Marthall ...	3	—	3	—	—	3	19	12
Mere ...	6	—	2	3	3	8	25	4
Millington ...	4	2	—	2	2	4	5	2
Mobberley ...	24	—	4	10	10	24	59	36
Northenden ...	67	1	6	23	39	68	13	9
Northen EtcHELLS ...	7	1	—	4	3	7	13	7
Ollerton ...	4	—	—	2	2	4	12	9
Partington ...	9	2	3	5	2	10	9	3
Peover Inferior ...	3	1	1	2	—	3	7	3
Peover Superior ...	9	2	2	4	2	8	27	13
Pickmere ...	3	2	—	3	—	3	16	4
Plumbley ...	8	—	2	3	3	8	18	6
Ringway ...	2	1	1	1	—	2	27	9
Rostherne ...	4	—	—	—	4	4	8	4
Styal ...	10	1	1	5	4	10	17	12
Tabley Inferior ...	—	—	—	—	—	—	4	4
Tabley Superior ...	12	—	—	4	8	12	22	16
Tatton ...	1	—	—	—	1	1	1	—
Timperley ...	37	8	9	15	11	25	15	8
Toft ...	1	1	—	1	—	1	8	4
Warburton ...	4	—	1	2	1	4	8	2
Total ...	285	24	47	129	112	288	523	233

TABLE 49.

Annual Report of the Medical Officer of Health for the year 1911, for the Rural District of Bucklow, on the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, Workplaces and Homework.

## 1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises,				Inspections.	Number of Written Notices.	Prosecutions.
Factories ...	...	...	...	90	4	...
(Including Factory Laundries.)						
Workshops ...	...	...	...	260	30	...
(Including Workshop Laundries.)						
Workplaces ...	...	...	...	200	...	...
				—	—	—
Total ...	...	...	...	550	...	...
				—	—	—

## 2.—DEFECTS FOUND.

Particulars.		Found.	Number of Defects Remedied	Referred to H.M. Inspector.	Number of Prosecutions
<i>Nuisances under the Public Health Acts:—</i>					
Want of Cleanliness ...	...	34	34	...	...

## 3.—HOME WORK.

				Lists received from Employers.		
				Lists.	Contractors.	Workmen.
Wearing Apparel—						
Making, &c. ...	...	...	...	4	...	12
File Making ...	...	...	...	2	...	2

## 4.—REGISTERED WORKSHOPS.

Class.							Number.
Workshops ...	...	...	...	...	...	...	129
Domestic Workshops ...	...	...	...	...	...	...	112
							—
Total number of Workshops on Register ...	...	...	...	...	...	...	241
							—

## 5.—OTHER MATTERS.

<i>Matters notified to H.M. Inspector of Factories:—</i>							
Failure to affix Abstract of the Factory and Workshop Act ...	...	...	...	...	...	...	2
Notified by H.M. Inspector ...	...	...	...	...	...	...	2

TABLE 50.

## CHESHIRE COUNTY COUNCIL.

Tabular Statement of Inspector of Nuisances for the Year ended  
December 31st, 1911.

A Number and Nature of Inspections Made.	Number	B Number of Notices served.		C Result of Service of Notices.			
		Statu- tory.	Infor- mal.	Notice compli- ed with.	Remain- ing in hand	Prosecutions.	
						Insti- tuted.	Pend- ing.
1. Dwelling Houses (general inspections) ...	209	82	20	87	15	...	...
2. Cellar Dwellings .. ...	Nil	...	...	...	...	...	...
3. Back-to-Back Houses ... ..	Nil	...	...	...	...	...	...
4. Tents, Vans, Sheds, &c. ... ..	12	..	1	1	...	...	...
5. Courts, Yards, Passages ... ..	1450	...	45	45	...	...	...
6. Privy-Middens, Earth or Pail Closets ..	1241	12	120	126	6	...	...
7. Cesspools ... ..	130	7	30	37	...	...	...
8. House Drainage ... ..	524	34	47	74	7	...	...
9. Ditches, Watercourses, &c. ... ..	142	...	20	20	...	...	...
10. Offensive Accumulations .. ...	14	...	4	4	...	...	...
11. The keeping of Animals (P. H. A., 1875, S. 91 (3))	22	...	1	1	...	...	...
12. Offensive Trades ... ..	Nil	...	...	...	...	...	...
13. (a) Slaughterhouses (Public) ... ..	Nil	...	...	...	...	...	...
" (Private) ... ..	86	...	6	6	...	...	...
(b) Other Places where Food is produced or sold	235	...	...	...	...	...	...
14. Piggeries ... ..	209	...	8	8	...	...	...
15. (a) Dairies... ..	603	50	90 1024 lime washing	98	42	...	...
(b) Cowsheds ... ..							
(c) Milkshops ... ..							
16. (a) Factories ... ..	90	34	...	34	..	...	...
(b) Workshops ... ..	260						
(c) Workplaces ... ..	200						
(d) Outworkers' Premises	20						
17. Bakehouses (Overground) ... ..	35	...	...	...	...	...	...
" (Underground) ... ..	Nil	...	...	...	...	...	...
18. Common Lodging Houses ... ..	Nil	...	...	...	...	...	...
19. Houses let in Lodgings ... ..	Nil	...	...	...	...	...	...
20. Smoke Observations ... ..	46	...	...	...	...	...	...
21. Canal Boats ... ..	92	...	...	...	...	...	...
22. Infectious Disease Inquiries and Re-visits	303	...	...	...	...	...	...
23. Miscellaneous ... ..	157	...	23	23	...	...	...
Totals ... ..	6080	219	1439	564	70	...	...

## TABLE 51.

## CHESHIRE COUNTY COUNCIL.

## Tabular Summary of Sanitary Work during 1911.

## NAME OF DISTRICT, BUCKLOW RURAL.

## I. ADOPTIVE ACTS.

Are the following in force in your District?

1. Infectious Diseases Prevention Act. *Yes.*
2. Notification of Births Act. *No.*
3. Public Health Acts (Amendment) Act, 1907. *Yes.*  
Sections in force. 15, 16, 52 to 75 *whole District.* 34 to 46  
*Dunham Massey, Northenden and Timperley only.* 23 *whole*  
*District.*
4. Other Adoptive Acts. *P.H.A.A.A., 1890, Sect. 29, 30, 31 Part*  
*III. (vide Sect. 50) applies to whole District.*

## II. BYE-LAWS AND REGULATIONS.

State subject matter of any new Bye-laws or Regulations brought into force during 1911. A copy of any new Bye-laws or Regulations would be acceptable. *None.*

## III. MILK SUPPLY.

Number of Registered Premises at close of 1911:—		Number inspected during 1911.
(a) Dairies	227	227
(b) Cowsheds	290	Most
(c) Milkshops	6	6
2. Number of Notices served for non-compliance with Regulations 140.		
3. Number of Legal Actions taken for non-compliance with Notices &c. <i>Nil.</i>		

## IV. FOOD INSPECTION.

1. Is this systematically carried out in your District? *Yes.*
2. Number of Slaughterhouses in your District (a) Public 0.  
(b) Private 15.
3. Number of Inspections made of Slaughterhouses during 1911  
(a) Public 0.  
(b) Private 86.
4. Are systematic Inspections made of premises other than Slaughterhouses where food is produced or sold? If so, please state generally nature of premises so inspected. *Yes. Butchers, Fruiterers, Poultry and Fish Shops, Meat and Fish Carts.*

## V. WATER SUPPLY.

1. From what source derived. *North Cheshire Water Co. Stockport Corporation. Knutsford Light and Water Co. Wells.*
2. Is the supply constant or intermittent? *Constant.*
3. Any complaints as to action on lead? *No.*
4. Number of Samples analysed during 1911. 11.
5. Are any, and if so what, parts of your District still without a proper supply? *See body of Report.*

## VI. POLLUTION OF RIVERS AND STREAMS.

In your opinion are any Rivers or Streams in your District polluted, or likely to be polluted at times, by any of the following:—

Source of Pollution.	River or Stream concerned.
(a) Public Sewage Disposal Works	(a) <i>Sinderland Brook, River Bollin, Mobberley Brook.</i>
(b) Private Sewage Disposal Works	(b) <i>Baguley Brook, River Dean.</i>
(c) Solid matter (accumulations of cinders, refuse, sludge, &c.)	(c) <i>None.</i>
(d) House Drainage	(d) <i>Nothing serious. Plenty of isolated houses, through the medium of ditches, etc.</i>
(e) Manufacturing waste or effluents	(e) <i>Peover Eye.</i>

## VII. SEWERAGE AND SEWAGE DISPOSAL.

1. Specify any new works of sewerage carried on during 1911. *Short Sewer Extensions in various places.*
2. Are any, and if so what, parts of your District still without a proper system of sewers? *See body of Report.*
3. By what system is sewage disposed of? *Tanks and Land at Dunham Massey and Northenden, Tanks and Cinder Filters at Dark Lane.*
4. Have there been any complaints during 1911 as to the disposal works? *Northenden.*
5. Have any alterations or extensions taken place in the disposal works during 1911? *Additional land at Northenden laid out for filtration.*

## VIII. SCAVENGING.

1. By whom is this carried out? *Council, Dunham Massey and Timperley. Contractor, Northenden.*
2. Approximate number of the following in your District :--  
How frequently scavenged?  

(a) Midden-prives	1401	6 Weeks.
(b) Dry Ashpits	773	6 Weeks.
(c) Pail Closets	647	Weekly.
(d) Dustbins	589	Fortnightly.
(e) Water Closets	1580	
3. Is the present system in your opinion inadequate in any respect? *It is at present sufficient for the townships named. Others may shortly need attention.*

## IX. HOUSING.

1. Number of new houses built during 1911. 40.
2. Number of dwelling-houses inspected under s. 17 Act of 1909. 111.
3. Number of such houses considered unfit for habitation. 3.
4. Number of representations made to Local Authority. 3.
5. Number of closing orders made by Local Authority. 3.
6. Number of houses where defects remedied *without* closing orders being made. 58.
7. Number of houses where defects remedied *after* closing orders made. *None.*
8. Estimated or ascertained number of houses within limits of rent in s. 14 of Act of 1909. 2979.
9. Number of such houses in respect of which notice was served during 1911. 111.
10. Number of such houses closed after notice. 3.
11. Number of such houses where Local Authority has executed necessary repairs, &c. *None.*
12. Approximate number of back-to-back houses in District. *None.*
13. Approximate number of cellar dwellings in District. *None.*

## X. PREVENTION OF CONSUMPTION.

1. Any system of notification in force during 1911? *Voluntary and under Tuberculosis Orders.*
2. Any Sanitary Inspection of patients' houses? *Yes.*
3. Any disinfection of ditto? *Yes.*
4. Any distribution of advice? *Yes.*
5. Any action *re* spitting? *No vessels provided.*

Date, 9th March, 1912.

(Signed) { T. W. H. GARSTANG.  
R. M. METCALFE.



## BUCKLOW RURAL DISTRICT.

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**Note.**—The matter found on pages 3 to 10, inclusive, is to be considered an integral part of this Report.

**Area.**—This remains unchanged, and comprises 30 Townships, whose names and grouping will be found in Tables 44 and 45.

**Public Institutions.**—As enumerated in last Report. The Census gives them 205 officers and 891 inmates. This is slightly below the daily average throughout the year, as returned by themselves, which was 972 inmates.

**Population.**—This was expected to be 22785, exclusive of Institutions; but was declared by the Census to be only 21774, an over estimate of 1011; an error of five per cent. The figures adopted were 21774 plus 205 officers and 972 inmates, a total of 22951. (Table 38).

Eleven townships have diminished in population since 1901; one is the same; eighteen have increased. Northenden 970 and Timperley 875 are the principal increases. The total increase from the previous Census is 3020.

**Hospitals.**—This District is the “predominant partner” in the Joint Hospital Board. The available beds are named on p. 40; and the number of cases occupying them will be given in a Report at the end of this volume.

**Tables**—Five are required by the L.G.B.; one by the Home Office; and two by the C.C.; the others are cut down so that there are only 14 in all instead of 22; to which must be added 7 (instead of 10) in the introductory chapter. There is occasional overlapping, and one or two matters are dealt with better in the body of the Report.

**Influences threatening the Health of the District.**—There are eight Urban Districts within the boundary of the Bucklow Union, and one or more townships of the Rural District are in contact and in more or less close relationship with each of them. At one point the Rural District touches Manchester; and other parts are not very distant from Stockport and Warrington. Influences (in the shape of infectious disease) *may* arise from these geographical conditions; though in reality it is rare. I am unable to think of any other “influences”; and indeed would ask to be informed more clearly what is meant by the word.

### Prevalence of Infectious Diseases.

*Notifications.*—Tables 39, 44 and 46. The total, 131, is only 6 per 1000 of population. Deducting 10 phthisis notifications, and 17 erysipelas (of no importance), the total is only 104, or less than 5 per 1000.

*Enteric Fever.*—19 cases occurred. One case in Northenden in June was removed to Hospital and recovered. Infection took place elsewhere. In the middle of August and running through September 18 cases occurred, in Dunham Massey and Timperley, (and there were 25 in the Urban District of Altrincham), of which 3 cases in Timperley may have been ordinary cases; but the other 15 in Dunham Massey together with the large majority of the Altrincham cases were a definite, connected, strictly localised epidemic, spread by personal contact, and perhaps by infected privy-middens; and originating in a concealed case or cases in a house in Dale Street, Altrincham. The County M.O.H. visited the area; and special reports on the outbreak were made to the L.G.B. by Dr. Golland and myself. All the Bucklow cases were removed to Hospital (in one case only after I had obtained an order from the bench of magistrates), and all recovered. The privy-middens, which were unsuitable for an area which had become closely built upon, are now in process of being converted into water-closets.

*Small-pox.*—Vaccination Tables are now omitted, being no longer of value.

*Measles.*—One death occurred in Northenden in February. The following schools were closed on account of epidemics:—Ashley January 21st to February 20th; Northenden Council January 27th to February 20th; Northenden C.E. February 22nd to March 13th; Baguley May 9th to 29th. During each closure a school officer was employed as a Health visitor, which in my opinion is the reason why only one death occurred among some hundreds of cases covering a period of school closure not less than 14 weeks in the aggregate.

*Scarlet Fever.*—No deaths. 70 cases; of which 11 were in Institutions. 27 in Northenden and 8 in Baguley, with 14 in Timperley and 6 in Dunham Massey; 2 in Marthall and 2 in Tatton. Twenty four Townships without a case. The 2 cases in Tatton, in one house, in May, were part of a small epidemic in the neighbouring U.D. of Knutsford; the two cases in Marthall, in March and June, had no local connections; the Timperley cases were scattered throughout the whole year, and the Dunham Massey cases throughout the second half year, without reaching "epidemic" proportions; the only epidemic was formed of the majority of the Northenden and Baguley

cases during March and April, when 22 cases occurred; the remainder being scattered through the year. Removal to Hospital was effected in the majority of cases; and disinfection of houses and bedding was carefully attended to.

*Whooping Cough*.—One death in Timperley in January; three in Timperley, one in Ringway, and one in Northenden, in February; and one in Peover Superior in July, indicate the areas mainly affected. In Timperley the Thorley Lane and Stockport Road Schools were closed from January 12th to 30th, and the latter prolonged to February 13th; Baguley School was closed January 30th to February 13th; Mobberley both Schools were closed February 17th to March 20th; whooping cough and scarlet fever kept the Northenden C.E. School (closed for measles February 22nd) further closed till April 24th; and the Over Peover School was closed June 15th till after the summer holidays.

*Diphtheria*.—13 cases were notified, of which 5 were removed to Hospital. One death occurred in April in Northenden. Antitoxin is generally used; and is provided by the Council for necessitous cases. These cases were scattered, and there was no epidemic.

*Phthisis*.—12 deaths occurred; Table 47 shows that the number has been steadily falling for 20 years, and is now only one third of what it was. No special administrative measures have hitherto been practicable; but something will have to be done under the new conditions of 1912.

*Puerperal Fever*.—One case in Dunham Massey in April proved fatal; one case in Rostherne in October recovered.

*School Closure*.—In addition to the instances named above, Partington School was closed for mumps, February 2nd to 13th; and Timperley (two schools) October 27th to November 4th; whilst Partington was closed again, for chickenpox, October 31st to November 10th.

*Mr. Metcalfe's report is*:—Enquiries have been made in all cases of infectious disease (except those in public institutions); and each house visited. Most of the cases were removed to Hospital. Clothing and bedding was disinfected by steam; rooms by fumigating or spraying with formalin, followed by stripping. Disinfection has been offered in cases of phthisis notified; and carried out after deaths from phthisis.—R.M.M.

**General and Special Enquiries.**—The most important was the prolonged investigation into the enteric fever outbreak, (see above). No other "enquiries"—as far as I understand the word—were required.

**The work of the Inspector of Nuisances.**—For reasons of economy, I do not on this occasion print the Inspector's Report

in extenso ;—it is obvious that it must share in the general compression to which I am subjecting every paragraph of my own writing.

I have every reason to believe that Mr. Metcalfe performs all his duties in a thoroughly efficient and satisfactory manner.

The statement required by Art. XX. (16) of the Order of 13th December, 1910, will be found included in Table 50 (the C.C. Return).

The remainder of his Report will be introduced as and where suitable.

**Milk Supply.**—Mr. Metcalfe reports :—Regular visits have been paid to dairies and cowsheds in each Township, besides re-inspections and surprise visits. Many irregularities were dealt with thus informally ; but there are some places where stronger measures are required. There were 6 new cowsheds built during 1911, some re-modelled, and many improved in minor matters. In Table 48, the 523 “cowkeepers” includes 290 who do not sell milk, 227 who do, and 6 who sell milk but do not keep cows. It should rather be called a list of places or premises inspected in connection with the milk-trade. One tuberculous cow was notified by the Manchester Inspectors, in Tabley Inferior. It was a bad case and the carcase was destroyed. Three cases of anthrax were dealt with as usual by the police.—R.M.M.

I have nothing to add to the remarks made in previous Reports.

**Foods other than Milk.**—321 visits were made to slaughter houses, butchers' shops, fish-carts, meat carts, fruit shops, &c. No complaints were received. There are 15 slaughter houses, which were frequently visited. One in Northenden has been re-modelled. They are generally clean and well-conducted.—R.M.M.

**Water Supply.**—The conditions are of a permanent nature, and there is not likely to be any change beyond an occasional extension of a main as new houses are built in those areas which possess public supplies. My description in last year's Report is likely to stand accurate for many years to come.

Water certificates were granted for 49 houses, of which 46 were on public mains. The other 3 were supplied from wells, the water being certified good on analysis. Mains were extended a considerable distance in Dunham Massey to supply the outlying hamlets of Woodhouses and Lowerhouses.—R.M.M.

**Rivers Pollution.**—The position does not vary appreciably from year to year. Sewage-works are fixtures ; and however carefully they are managed their product is more-or-less-purified sewage. The list given in my last Report is still accurate.



Many inspections have been made, and some pollutions discovered which were abated on service of notice. The Bollin is often discoloured by waste from Print Works at Bollington. The attention of the M. and I.J. Committee has been drawn to this.—R.M.M.

**Sewerage and Sewage Disposal.**—House drainage is generally good, and is being constantly improved.

All new drains were water-tested; and in several cases new sanitary fittings were provided for the house also. Most of the houses in Dunham Town and Dunham Woodhouses have been re-drained and connected to the new sewer.—R.M.M

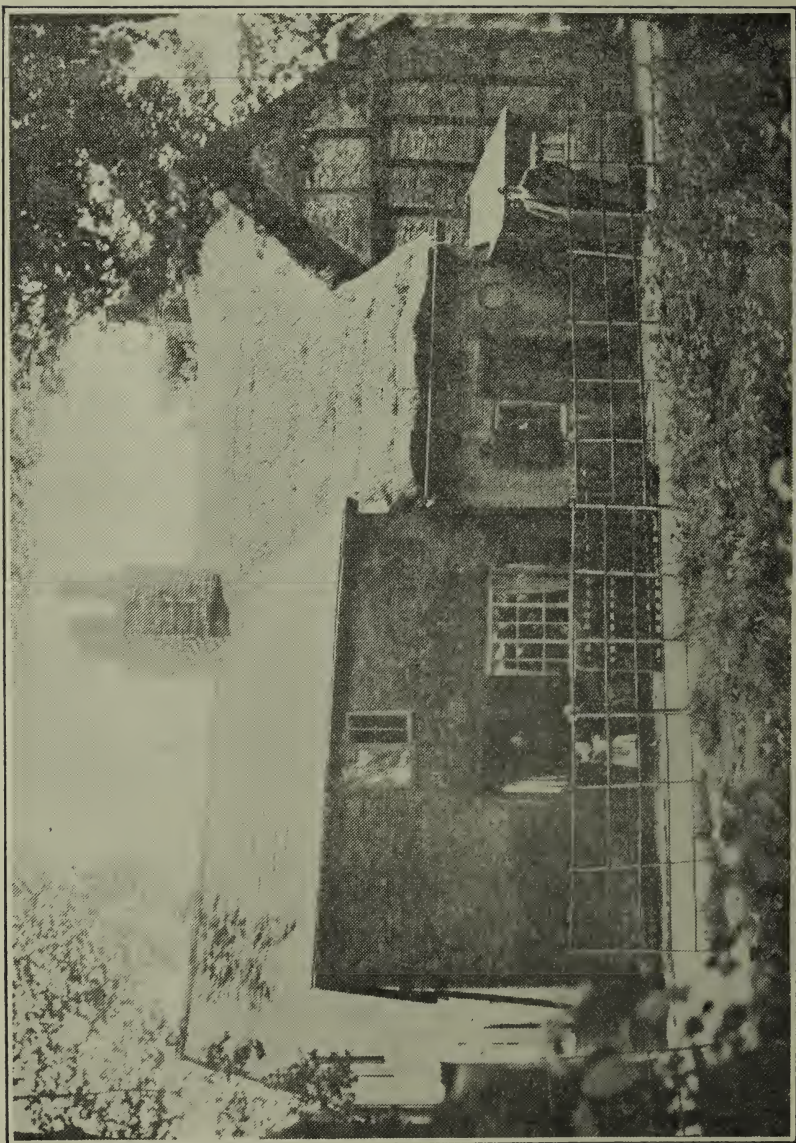
The various out-fall works are as described in my last Report, except that Northenden has been declared inefficient by the M. and I.J. Committee and additional works are demanded. The Council has decided to lay out additional land for irrigation, to bring the total to 10 acres; but there is no doubt that settling tanks will also have to be provided, of suitable capacity, and some means of dealing with storm water. A Special Committee has been appointed by the Council to deal with all matters of this nature, in place of the several small local Committees which previously dealt with individual cases; and I hope that good results will follow. Northenden, Timperley, Baguley, and Peover are already receiving consideration. For the rest, see last Report, p. 110.

**Sanitary Conveniences.**—Table 51, VIII., 2, gives the figures, as far as known. The circumstances of the various townships vary widely in regard to existence of public water supply and public sewer; also in population; also in density of population. Sufficient conveniences exist for the needs of the District; they are kept in good repair; they are improved as opportunity offers.

**Scavenging.**—This is carried out in Northenden by a contractor; in Dunham Massey and Timperley by the Council's staff; and is just being commenced for a corner of Northen Etchells. There are no arrangements for the remainder of the District.

**Housing Accommodation.**—By letter dated 14th September, 1911, I was informed that the L.G.B. did not consider my Report for 1910 sufficiently full in this matter. I had complied with Art. V. of the Housing Regulations, see Table 60, p. 98; and I thought I had complied with Art. XIX. (14) (k) of the Sanitary Officers Order, 1910; but I admit that I had overlooked the detailed requirement of p. 2 of the Memorandum of the Medical Officer of the L.G.B. I will now endeavour to repair the omission.





Old Cottages, Timperley, closed.

The Table required by Art. V. will be found in C.C. Table 51, IX.; except the last point, the general character of defects found to exist. In our only case, a block of three cottages, the defects were such as were due to venerable age, general dilapidation, dampness, defective drainage, &c.

As regards the details in the Memorandum, (1) the accommodation, especially for the working classes, is adequate; and the houses are in good condition and repair. The latter is the result of many years' attention and work by myself and my Inspectors, and our predecessors. This has always been a District where Byelaws have been enforced. As to "adequacy" I am fully aware that if some Genie provided 500 new cottages to-morrow they would all be occupied within a week. But it would not be by our own resident population. It would be by persons from Manchester (and other towns); and it would therefore not affect the condition of present residents at all. Northenden and Timperley are the places where more houses are wanted, but it is a demand coming from outside, for purposes of immigration; and I do not myself consider that any duty rests upon the Council to meet such a demand. (2) Open space may in many parts be measured in acres. There is only 0·4 person to the acre; or  $2\frac{1}{2}$  acres to every person. The villages are small, and with very minor exceptions, there is always open space, and the surroundings are more or less clean. I do not mean that they are all ideal, but that they never approach "slum" conditions. (3) Supervision over erection of new houses is close, and no occupation is permitted until everything is satisfactory. (4) No action was taken, or needed, under Parts I., II., or III. of the H.W.C. Act.

Referring once more to the Board's letter, the question of overcrowding remains. It will be gathered from previous pages that overcrowding is not inherently probable in the 11 townships whose population has decreased in the decade, nor in the 12 townships whose increase is less than 100 each. The remaining 7 include 2 where the increase is due to public institutions; and the remaining 5 are just those where building is most active. No cases of overcrowding have needed any action in 1911.

Having now given all the information asked for, to the best of my ability, I beg very respectfully to point out that it is all of a satisfactory nature; that nothing was omitted in an attempt to conceal anything unfavourable; and that, now that it is set out at length it is only what ought to have been known to be the existing position by any person who has read my Reports for (say) the last five years.

Turning now to the H.T.P. Act and the Regulations, I submit Mr. Metcalfe's Report. I believe the work has been thoroughly, conscientiously and well done. I am however

bound to point out that it has **not** been done "under my direction and supervision" as specifically required by Art. II. and Art. III. of the Regulations. Mr. Metcalfe has done the work as if he were an entirely independent Officer. Considering the length of time it takes to inspect a house, and the time in writing up the Register, and in writing reports, and perhaps notices also, together with numerous re-inspections and supervision of improvements, I consider that 111 houses, completely reported on, are a quite satisfactory instalment of this particular work for one year. Simple rule-of-three however points out that it will take 45 years to cover the District at the same rate.

*Inspector's Report.*—Inspection was commenced at the beginning of 1911, and my work as Inspector has been very greatly increased by this new department. 111 houses were inspected, registered and reported on. The general defects were bad floors, dampness, want of ventilation, defective drainage, and insanitary privies. In one case only an order had to be issued to procure admission. Closing orders were made for one block of three cottages in Timperley. No demolition orders have as yet been asked for.—R.M.M.

To the list of areas scheduled for inspection, (p. 111., A.R., 1910), I added Lime Grove, Timperley; on the other hand Rostherne may be struck out. The parts dealt with are Back Church Street, Church Street, Boat Lane, Northenden; Baker Street, Orchard Place, Cow Lane, Washway Cottages, Lime Grove, Timperley; a few houses at Dunham Woodhouses; and Park Gate, Peover Superior.

**Smoke Observations.**—Mr. Metcalfe reports 46 observations (each one hour) of the Chemical Works at Plumbley, which show little improvement, and point to the probable necessity for further legal proceedings.

**Legal Proceedings.**—In January two persons were prosecuted for occupying a house in Mobberley, without obtaining a water certificate, and in breach of the byelaws. Fines were imposed which with costs amounted to £13 3s. 0d.

**Vital Statistics.**—All the required Tables have been correctly compiled, 38, 39, 40, 41; to which I have added others, 42, 43, 45, 47. It is a temptation to comment on them, which I resist this year in my endeavour to secure brevity.

**Midwives.**—I inspect these quarterly, on behalf of the County M.O.H.

**Systematic Inspection.**—This has been in abeyance during 1911, owing to circumstances which I wish to pass over as lightly as possible.



**Public Health Department.**—Until December, 1911, there has been no true Health Department. All the Officers have been appointed by the Council independently, with nothing laid down as to the authority of one over another. For sixteen years therefore I have obtained such assistance as I required from the Inspector of Nuisances as a matter of courtesy between two independent officers. In February, 1911, this understanding was destroyed by the action of the Inspector, and I was compelled to take steps to have the whole position considered and regularised. It was not until December 15th that the Council's final resolutions were published; but they were (1) that a Health Department be formed. (2) That the M.O.H. for the time being be the recognised Head of the Health Department. (And others dealing with details.) I trust therefore that 1912 will see a smooth working of the new Department.

**Factories and Workshops.**—Systematic inspections have been carried out; the entire District has been visited in company with Dr. Garstang, the M.O.H., the more populous townships of the District being inspected on several occasions.

The register at the close of the year shows an increase of 3, the figures being 47 Factories, 129 Workshops, and 112 Work-places, making a total of 288 as against 285 in 1910.

In the course of the inspections several premises were found to be in a dirty condition and 34 Noticès were served on occupiers to have their workshops limewashed and cleansed. There are now 7 Outworkers within the District, 4 in Timperley, 2 in Northenden, and 1 in High Legh.

Complaints have been received from H.M. Lady Inspector of Factories as to the provision of inside doors and locks to conveniences used by Females. H.M. Inspector of Factories also writes that a Bakehouse had not been limewashed for 6 months. Both these matters have been attended to and made satisfactory.

A Fire Certificate has been granted to a firm whose works are in Timperley.

A case of infectious disease occurred at a Laundry in Timperley. Precautions were rigidly enforced after the patient had been removed to Hospital.—J. Mc.D. McKENZIE.

**Surveyor's Reports.**—Mr. McKenzie reports on his inspections of canal boats as follows:—36 visits and 92 inspections have been made. No formal notices have been required. The boats were registered to carry 339 persons; and 180 were on board viz.: 146 men, 29 women and 4 children (all under school age).

No defects were noticed; the general condition of the boats inspected being the best on record.

13 boats were directly engaged in the nightsoil manure traffic mainly along the banks of the Bridgewater Canal at Dunham, Bollington and Timperley. No case of infectious disease has been notified.

As to building, &c., he reports :—25 Certificates have been granted for 49 houses which are now occupied. Footings and damp proof courses for 36 new buildings have been examined and found satisfactory. 43 Connections to Main Sewers have been inspected and approved.

All drains to new buildings within the Council's District have been water tested and 73 sets thus inspected were found satisfactory, being sound and tight.

Main Sewers have been extended in the Townships of Timperley and Dunham Massey. 73 yards of 9 inch along Sugar Lane, Timperley, and 40 yards of 9 inch along Seamons Road, Dunham Massey.

**Conclusion.**—I take a last survey of the Principal Medical Officer's instructions, and find some points there mentioned which I have not separately alluded to. May I say comprehensively that either they do not apply to this District, or I have not the information, or they are not under my jurisdiction; all the conditions in a Rural District like this are so widely different to those in large towns, to which the Memorandum seems to apply more closely. At any rate I have not intentionally left out anything which ought to have been included. At the worst, if it is judged necessary, I shall be quite willing to furnish a Supplementary Report.

**T. W. H. GARSTANG,**

*D.P.H. Vict.*

*March 13th, 1912.*



# Bucklow Joint Hospital Board.

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This is not a Report under Art. XIX. (14) and (16), of the Local Government Board's Order; but is published at the suggestion of myself as Medical Adviser to the Board, by the permission of the Board, for the information of the various Authorities which comprise it.

The conditions under which the Districts forming the Board have access to the Hospitals of the Manchester Corporation, and the extent of the accommodation which they can claim, were explained in detail in my Report for 1908.

The appended Table shows all particulars of cases, Districts, and diseases, for the year 1911. It appears that 158 cases were admitted, making, with 37 remaining from 1910, 195 cases receiving treatment. 179 were discharged, and 3 died; leaving 13 in at the end of the year. 91 cases came from the Bucklow District, 1 from Alderley Edge, 15 from Ashton-on-Mersey, 15 from Hale, 35 from Knutsford, 26 from Sale, and 11 from Wilmslow. At the end of 1911 there remain 4 from Bucklow, 1 from Ashton-on-Mersey, 2 from Hale, 1 from Knutsford, 3 from Sale, and 2 from Wilmslow. The total number of cases sent to Hospital since December 8th, 1902, is 1207.

**T. W. H. GARSTANG,**

*D.P.H. Vict.,*

*Medical Adviser to the Board.*

*March 14th, 1912.*



DATE.	DISEASE.	BUCK-LOW.			Alder-ley.			Ash-ton.			Hale.			Knuts-ford.			Sale.			Wilm-slow.			
		Admitted	Discharged	Died	Admitted	Discharged	Died	Admitted	Discharged	Died	Admitted	Discharged	Died	Admitted	Discharged	Died	Admitted	Discharged	Died	Admitted	Discharged	Died	
AUG.	Scarlet Fever	1	4	...	...	...	...	1	...	...	...	...	...	1	...	...	2	2	...	1	...	...	Admitted 10
	Diphtheria	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Discharged 9
	Enteric Fever	5	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	Died 1
																							Remaining in 14
SEP.	Scarlet Fever	2	...	...	...	...	...	...	...	...	1	1	...	...	...	...	2	2	...	1	...	...	Admitted 23
	Diphtheria	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	...	Discharged 9
	Enteric Fever	13	3	...	...	...	...	...	...	...	...	...	3	1	...	...	...	...	...	...	...	...	Died 1
																							Remaining in 27
OCT.	Scarlet Fever	2	2	...	...	...	...	4	...	...	2	1	...	...	...	...	1	3	...	...	...	...	Admitted 12
	Diphtheria	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	Discharged 20
	Enteric Fever	...	9	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	Died 0
																							Remaining in 19
NOV.	Scarlet Fever	2	3	...	...	...	...	1	3	...	1	1	...	...	...	...	3	1	...	...	...	...	Admitted 7
	Diphtheria	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	Discharged 13
	Enteric Fever	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Died 0
																							Remaining in 13
DEC.	Scarlet Fever	2	1	...	...	...	...	1	...	...	2	2	...	...	...	...	...	...	2	...	...	...	Admitted 7
	Diphtheria	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Discharged 7
	Enteric Fever	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	Died 0
																							Remaining in 13
TOTALS		66	62	...	1	1	...	15	14	...	9	7	...	23	23	...	25	22	...	8	6	...	
		6	6	...	...	...	...	...	...	...	6	6	...	...	...	...	1	...	1	2	1	1	
		19	19	...	...	...	...	1	1	...	...	...	12	11	...	...	...	...	1	...	1	1	

	TOTALS.		
	Ad- mitted	Dis- charged	Died
Scarlet Fever	147	135	...
Diphtheria	15	13	2
Enteric Fever	33	31	1
	195	179	3

In order not to complicate the Table, 3 cases of puerperal fever have been included with the enteric fever cases, viz. : the Ashton case in January, the Wilmslow (fatal) case in May, and the Knutsford case in December.

ADDENDUM.

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Biddulph U.D. On p. 23, add "Alsager U.D." to the list of joint owners of the Hospital.

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A Table, recently issued by the L.G.B., has been inadvertently omitted from each Report. It asks for details of Sanatorium and Hospital provision for cases of phthisis. Every answer for every District is the simple word "NIL." As I gave this information to the L.G.B. by return of post, and at a later date to the County M.O.H., no harm will have been done.

T.W.H.G,



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